

australian

commodity statistics



2006

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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 2006

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.

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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.

country grouping

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

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



australian **economy**



2006

overview
macroeconomic indicators
farm sector
resource sector

1

Australian gross product, by sector

	Chain volume measures ^a						Nominal prices
	Mining					Gross domestic product	Gross domestic product
	Rural		Mining (excl. services to mining)	Services to mining	Total		
	Farm \$m	Total ^b \$m					
1974-75	12 310	13 318	13 896	na	15 947	342 897	69 857
1975-76	13 436	14 421	13 479	na	15 536	352 438	81 867
1976-77	13 765	14 806	14 354	na	16 545	364 622	94 373
1977-78	13 285	14 320	14 718	na	16 907	367 936	103 069
1978-79	16 510	17 429	15 097	na	17 274	383 785	116 726
1979-80	14 191	15 286	14 777	na	16 695	395 791	132 456
1980-81	12 140	13 402	15 056	na	16 855	408 996	149 960
1981-82	14 510	15 593	14 935	na	16 331	421 930	172 877
1982-83	11 062	12 185	15 502	na	17 111	411 679	185 921
1983-84	16 455	17 461	16 648	na	18 573	431 159	209 979
1984-85	16 510	17 494	18 807	na	21 162	454 118	231 868
1985-86	16 070	17 022	21 063	3 114	23 382	474 203	255 804
1986-87	16 183	17 144	20 049	2 125	21 922	484 997	280 404
1987-88	15 485	16 592	23 495	2 740	25 842	511 311	319 752
1988-89	15 968	17 169	24 679	2 850	27 129	531 817	362 436
1989-90	17 362	18 544	27 538	2 532	29 852	552 739	397 480
1990-91	18 230	19 518	29 486	2 164	31 552	549 451	408 862
1991-92	17 005	18 396	31 027	1 989	32 995	550 059	416 934
1992-93	18 211	19 586	31 081	2 287	33 322	570 639	438 001
1993-94	18 949	20 261	31 640	2 299	33 905	594 210	459 963
1994-95	15 265	16 874	33 724	2 779	36 333	620 801	486 578
1995-96	19 199	20 790	36 491	3 038	39 354	646 373	518 158
1996-97	20 550	22 348	36 963	3 089	39 879	671 806	545 736
1997-98	20 343	22 227	38 206	3 247	41 286	701 894	577 422
1998-99	22 582	24 486	38 538	2 901	41 151	738 225	607 863
1999-00	23 495	25 755	41 271	2 811	43 667	767 611	645 153
2000-01	24 443	26 798	44 051	3 248	46 994	782 492	689 340
2001-02	25 311	27 642	43 955	3 340	47 025	812 009	735 783
2002-03	18 808	21 158	43 526	3 566	46 921	838 366	782 798
2003-04	25 278	27 790	42 130	3 354	45 283	871 738	838 251
2004-05	25 182	27 490	43 554	3 943	47 496	894 665	894 665
2005-06	24 592	26 855	42 598	3 736	46 336	918 483	961 920

^a Reference year is 2004-05. 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.

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

2 Australian employment, by sector ^a

	Rural		Mining '000	Manufacturing '000	Other '000	Total employment '000
	Farm '000	Total ^b '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	386	444	81	1 077	7 532	9 134
2002-03	326	377	86	1 091	7 769	9 323
2003-04	320	374	92	1 033	7 933	9 431
2004-05	312	363	93	991	8 089	9 536
2005-06	305	355	115	1 001	8 388	9 858

^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		Mining %	Manufacturing %	Other %
	Farm %	Total ^a %			
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	4.9	0.9	11.8	82.5
2002-03	3.5	4.0	0.9	11.7	83.3
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

^a 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.

overview

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
1960-61	1 400	12	9	na	na	1 884	2 168
1961-62	1 635	12	13	na	na	2 165	2 468
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	15 144	607	674	21 195	37 264	44 187	55 322
1989-90	14 409	607	784	24 932	40 497	48 927	60 842
1990-91	13 024	696	831	28 030	42 371	52 568	66 249
1991-92	14 572	737	980	28 304	44 322	55 427	70 065
1992-93	15 905	815	1 090	29 759	47 352	60 634	77 045
1993-94	17 611	897	1 243	29 878	48 896	64 419	83 186
1994-95	17 819	1 052	1 367	30 371	50 023	67 101	87 926
1995-96	20 262	1 067	1 328	34 450	56 472	76 146	99 385
1996-97	21 849	1 182	1 305	36 052	59 740	80 934	105 571
1997-98	23 097	1 324	1 489	40 925	66 181	88 538	114 005
1998-99	22 620	1 300	1 511	39 221	63 902	85 783	112 552
1999-00	24 154	1 580	1 988	45 498	72 182	97 665	126 863
2000-01	29 568	1 813	2 169	58 006	90 643	120 216	154 669
2001-02	31 193	1 984	2 100	57 293	91 598	120 950	154 778
2002-03	27 164	2 060	1 844	56 937	86 795	115 800	149 691
2003-04	26 240	2 002	1 652	53 539	82 396	109 504	144 676
2004-05	27 615	2 089	1 542	68 457	98 807	127 903	164 390
2005-06	27 634	2 109	1 549	90 533	120 970	153 946	192 149

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
	%	%	%	%	%
1960-61	74.3	0.6	0.5	na	na
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	34.3	1.4	1.5	48.0	84.3
1989-90	29.4	1.2	1.6	51.0	82.8
1990-91	24.8	1.3	1.6	53.3	80.6
1991-92	26.3	1.3	1.8	51.1	80.0
1992-93	26.2	1.3	1.8	49.1	78.1
1993-94	27.3	1.4	1.9	46.4	75.9
1994-95	26.6	1.6	2.0	45.3	74.5
1995-96	26.6	1.4	1.7	45.2	74.2
1996-97	27.0	1.5	1.6	44.5	73.8
1997-98	26.1	1.5	1.7	46.2	74.7
1998-99	26.4	1.5	1.8	45.7	74.5
1999-00	24.7	1.6	2.0	46.6	73.9
2000-01	24.6	1.5	1.8	48.3	75.4
2001-02	25.8	1.6	1.7	47.4	75.7
2002-03	23.5	1.8	1.6	49.2	75.0
2003-04	24.0	1.8	1.5	48.9	75.2
2004-05	21.6	1.6	1.2	53.5	77.3
2005-06	18.0	1.4	1.0	58.8	78.6

^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
	%	%	%	%	%	%	%
1960-61	64.6	0.5	0.4	na	na	86.9	13.1
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	27.4	1.1	1.2	38.3	67.4	79.9	20.1
1989-90	23.7	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	20.8	1.1	1.4	40.4	63.3	79.1	20.9
1992-93	20.6	1.1	1.4	38.6	61.5	78.7	21.3
1993-94	21.2	1.1	1.5	35.9	58.8	77.4	22.6
1994-95	20.3	1.2	1.6	34.5	56.9	76.3	23.7
1995-96	20.4	1.1	1.3	34.7	56.8	76.6	23.4
1996-97	20.7	1.1	1.2	34.1	56.6	76.7	23.3
1997-98	20.3	1.2	1.3	35.9	58.1	77.7	22.3
1998-99	20.1	1.2	1.3	34.8	56.8	76.2	23.8
1999-00	19.0	1.2	1.6	35.9	56.9	77.0	23.0
2000-01	19.1	1.2	1.4	37.5	58.6	77.7	22.3
2001-02	20.2	1.3	1.4	37.0	59.2	78.1	21.9
2002-03	18.1	1.4	1.2	38.0	58.0	77.4	22.6
2003-04	18.1	1.4	1.1	37.0	57.0	75.7	24.3
2004-05	16.8	1.3	0.9	41.6	60.1	77.8	22.2
2005-06	14.4	1.1	0.8	47.1	63.0	80.1	19.9

^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 \$m	Resource sector products ^c \$m	Other merchandise \$m	Total merchandise ^d \$m	Services ^d \$m	Total goods and services ^d \$m
1974-75	9 250	12 314	4 694	26 258	6 755	32 963
1975-76	11 328	12 206	4 216	27 750	6 431	34 254
1976-77	12 713	13 163	4 108	29 984	6 531	36 703
1977-78	12 763	13 680	4 127	30 570	6 824	37 527
1978-79	12 901	14 625	4 703	32 229	8 021	40 193
1979-80	14 066	14 589	6 088	34 743	8 219	43 030
1980-81	12 569	14 164	5 350	32 083	8 979	40 946
1981-82	12 824	14 838	5 175	32 837	9 207	41 912
1982-83	12 012	16 138	4 886	33 036	9 157	42 130
1983-84	11 942	18 191	5 633	35 766	9 630	45 370
1984-85	13 931	21 516	6 325	41 772	10 424	52 367
1985-86	14 878	21 966	6 416	43 260	10 916	54 341
1986-87	15 737	23 643	8 418	47 798	12 178	60 134
1987-88	15 466	26 116	9 480	51 062	14 541	65 579
1988-89	14 569	26 080	10 359	51 008	15 808	66 606
1989-90	14 824	29 137	10 006	53 967	16 037	69 888
1990-91	16 181	33 806	10 563	60 550	17 571	78 052
1991-92	17 628	36 916	12 167	66 710	18 461	85 171
1992-93	18 896	37 816	13 791	70 503	20 538	91 004
1993-94	20 893	38 068	17 869	76 830	23 244	99 985
1994-95	19 688	39 257	19 942	78 886	26 260	104 984
1995-96	21 690	42 907	22 552	87 150	28 603	115 593
1996-97	24 496	47 855	25 597	97 947	29 986	127 874
1997-98	25 853	52 519	23 629	102 001	30 545	132 488
1998-99	26 708	52 910	24 823	104 440	31 772	136 137
1999-00	29 413	56 631	29 358	115 402	33 879	149 175
2000-01	30 772	59 468	32 185	122 425	38 134	160 476
2001-02	32 308	66 158	24 311	122 777	36 464	159 269
2002-03	27 921	68 203	26 297	122 420	35 557	158 041
2003-04	29 030	67 437	27 501	123 967	36 244	160 278
2004-05	30 352	68 459	29 092	127 903	36 487	164 390
2005-06	30 660	69 182	30 760	130 602	36 920	167 522

^a Reference year 2004-05. ^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 Microfiche*, cat. no. 5337.0, Canberra; ABARE.

8 Australian unit export returns

	Rural			Minerals			Total commodities
	Farm	Forest and fisheries products	Total	Energy minerals	Metals and other minerals	Total	
Annual indexes ^a							
1989-90	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1990-91	85.9	101.2	87.2	111.5	96.6	102.0	96.8
1991-92	87.6	106.0	89.1	103.6	88.1	93.7	92.0
1992-93	90.0	111.3	91.8	109.7	92.1	98.5	96.1
1993-94	89.4	126.6	92.5	100.2	88.6	92.8	92.7
1994-95	99.7	129.8	102.2	94.3	92.3	93.0	96.2
1995-96	105.0	126.8	106.8	101.5	95.3	97.5	100.7
1996-97	95.0	125.2	97.4	103.2	86.9	92.9	94.4
1997-98	101.8	125.8	103.7	106.0	94.8	98.9	100.5
1998-99	92.9	123.7	95.4	96.8	92.4	94.0	94.5
1999-00	90.2	133.2	93.7	110.4	98.0	102.7	99.4
2000-01	108.4	145.1	111.4	141.0	115.6	125.4	120.4
2001-02	117.8	143.2	119.8	140.8	110.3	122.2	121.3
2002-03	115.9	136.1	117.5	135.2	105.9	117.4	117.2
2003-04	106.7	125.1	108.1	120.2	105.1	111.1	110.0
2004-05	105.8	126.8	107.5	166.1	124.9	140.9	130.0
2005-06	105.9	129.7	107.8	225.1	161.1	185.8	160.3
Quarterly indexes ^b							
2003-04							
September	106.8	95.6	105.5	124.9	109.3	115.7	111.7
December	107.0	97.7	105.8	118.8	110.3	114.0	110.7
March	105.4	94.2	103.5	119.9	108.5	113.2	109.5
June	109.3	97.9	108.6	146.5	127.1	134.9	124.8
2004-05							
September	108.9	103.3	108.5	163.3	131.8	144.4	131.2
December	105.8	97.1	104.6	166.7	127.8	143.3	129.2
March	106.1	95.1	104.4	164.5	131.1	144.5	130.1
June	104.0	95.1	103.5	210.1	151.3	174.5	149.3
2005-06							
September	103.2	99.1	102.8	232.3	158.8	187.5	158.0
December	105.8	100.3	104.3	242.1	164.5	194.8	163.6
March	106.5	101.2	105.7	243.1	177.9	203.7	169.7
June	108.5	99.5	108.4	241.4	197.5	215.5	177.8

^a In Australian dollars. Base: 1989-90 = 100. ^b In Australian dollars. Base 1994-95 = 100.
Source: ABARE.

9 Australian main macroeconomic indicators

	Growth of real gross domestic product %	Interest rates		Inflation c	Consumer price index d
		Short term a %	Long term b %	%	
1960-61	3.6	na	na	4.3	14.1
1961-62	1.4	na	na	0.4	14.1
1962-63	6.8	na	na	0.0	14.1
1963-64	6.9	na	na	1.2	14.3
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	4.0	5.3	5.9	2.4	143.5
2004-05	2.6	5.5	5.1	2.4	147.0
2005-06	2.7	5.7	5.8	3.2	151.7

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		Current account		Terms of	Net foreign debt c	
	goods and services		balance a			Share of	
	Imports	Exports	Level	GDP		Level	GDP
	\$m	\$m	\$m	%	trade b	\$m	%
1960-61	2 636	2 168	-748	-4.5	104.2	na	0.0
1961-62	2 243	2 468	-8	-0.2	106.0	na	0.0
1962-63	2 656	2 489	-468	-2.6	107.7	na	0.0
1963-64	2 920	3 158	-70	-0.6	119.3	na	0.0
1964-65	3 535	3 050	-780	-3.6	113.0	na	0.0
1965-66	3 683	3 136	-889	-3.9	113.5	na	0.0
1966-67	3 770	3 484	-659	-2.7	112.8	na	0.0
1967-68	4 224	3 574	-1 131	-4.2	108.0	na	0.0
1968-69	4 360	3 897	-980	-3.3	111.4	na	0.0
1969-70	4 871	4 765	-688	-2.2	112.7	na	0.0
1970-71	5 214	5 086	-749	-2.1	101.5	na	0.0
1971-72	5 351	5 685	-293	-0.8	99.5	na	0.0
1972-73	5 512	7 016	754	1.4	117.9	na	0.0
1973-74	7 996	7 896	-921	-1.6	127.1	na	0.0
1974-75	10 510	10 114	-1 195	-1.8	115.5	na	0.0
1975-76	11 163	11 225	-1 423	-1.8	110.4	3 133	4.0
1976-77	14 106	13 425	-2 451	-2.6	106.9	5 160	5.7
1977-78	15 342	14 245	-3 067	-3.0	96.9	7 434	7.5
1978-79	18 260	16 910	-3 708	-3.2	97.8	9 553	8.5
1979-80	21 444	22 013	-2 168	-1.6	101.4	7 923	6.2
1980-81	25 530	22 605	-5 763	-3.8	100.5	9 361	6.4
1981-82	29 660	23 694	-9 057	-5.2	98.5	18 378	11.0
1982-83	29 667	25 622	-6 864	-3.7	97.8	25 169	14.0
1983-84	32 162	28 888	-7 836	-3.7	100.0	31 850	15.7
1984-85	40 790	35 741	-11 281	-4.9	97.5	53 055	23.6
1985-86	47 199	38 937	-15 499	-6.1	88.4	78 396	31.5
1986-87	49 032	44 312	-12 547	-4.5	81.8	87 971	32.3
1987-88	54 080	51 737	-11 545	-3.6	88.3	98 767	30.9
1988-89	62 296	55 322	-19 017	-5.2	100.3	117 240	31.5
1989-90	68 771	60 842	-22 795	-5.7	107.6	130 620	32.9
1990-91	66 948	66 249	-17 470	-4.3	101.6	142 065	35.0
1991-92	69 269	70 065	-13 264	-3.2	79.8	162 466	39.0
1992-93	79 098	77 045	-14 958	-3.4	76.4	177 453	40.5
1993-94	85 424	83 186	-15 904	-3.5	74.2	171 313	37.2
1994-95	97 778	87 926	-28 292	-5.8	76.1	190 790	39.2
1995-96	101 241	99 385	-21 325	-4.1	78.5	193 872	37.4
1996-97	103 828	105 571	-17 429	-3.2	80.9	208 628	38.2
1997-98	118 973	114 005	-23 037	-4.0	80.9	227 782	39.4
1998-99	127 122	112 552	-33 749	-5.6	76.3	230 689	38.0
1999-00	140 912	126 863	-32 080	-5.0	79.5	272 639	42.3
2000-01	153 910	154 669	-17 946	-2.6	81.8	302 467	43.9
2001-02	154 580	154 778	-19 486	-2.6	83.2	324 147	44.1
2002-03	167 170	149 691	-40 184	-5.1	84.8	356 995	45.6
2003-04	167 706	144 676	-47 033	-5.6	90.8	390 565	46.6
2004-05	188 881	164 390	-57 557	-6.4	100.0	431 941	48.3
2005-06	208 665	192 149	-54 420	-5.8	111.0	493 828	52.2

^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: 2004-05 = 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.

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
1960-61	402.22	1.1193	0.805	na	0.399	na	na
1961-62	405.56	1.1213	0.805	na	0.399	na	na
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

^a Period average. As at 1 October 2005, the five most important currencies and their weights in the trade weighted index for the Australian dollar were the Japanese yen (16.36 per cent), European Euro (13.08 per cent), Chinese renminbi (12.75 per cent), US dollar (11.94 per cent) and Korean won (5.72 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.

macroeconomic indicators

12 Exchange rates of selected countries ^a

	Australia A\$/US\$	Japan ¥/US\$	Euro €/US\$	United Kingdom £/US\$	Real effective exchange rates ^b		
					United States	Japan	Germany
1960	0.8929	360.00	na	0.3571	na	na	na
1961	0.8929	360.00	na	0.3571	na	na	na
1962	0.8929	360.00	na	0.3571	na	na	na
1963	0.8929	360.00	na	0.3571	na	na	na
1964	0.8929	360.00	na	0.3571	na	na	na
1965	0.8929	360.00	na	0.3571	na	na	na
1966	0.8929	360.00	na	0.3571	na	na	na
1967	0.8929	360.00	na	0.3614	na	na	na
1968	0.8929	360.00	na	0.4167	na	na	na
1969	0.8929	360.00	na	0.4167	na	na	na
1970	0.8929	360.00	na	0.4167	na	na	na
1971	0.8817	350.68	na	0.4108	na	na	na
1972	0.8387	303.17	na	0.3997	na	na	na
1973	0.7035	271.70	na	0.4078	na	na	na
1974	0.6947	292.08	na	0.4275	na	na	na
1975	0.7632	296.79	na	0.4501	117.6	88.0	80.1
1976	0.8162	296.55	na	0.5536	120.6	87.1	81.1
1977	0.9017	268.51	na	0.5729	118.6	93.3	85.3
1978	0.8736	210.44	na	0.5210	105.2	76.7	76.7
1979	0.8945	219.14	na	0.4714	103.9	67.6	78.0
1980	0.8776	226.74	na	0.4299	105.7	60.6	76.7
1981	0.8701	220.54	na	0.4931	116.8	65.1	69.6
1982	0.9829	249.08	na	0.5713	129.3	57.6	70.7
1983	1.1082	237.51	na	0.6592	131.1	61.3	73.1
1984	1.1369	237.52	na	0.7483	138.3	62.7	72.0
1985	1.4269	238.54	na	0.7714	143.5	62.2	73.0
1986	1.4906	168.52	na	0.6817	118.7	78.3	81.8
1987	1.4268	144.64	na	0.6102	103.7	82.1	88.7
1988	1.2752	128.15	na	0.5614	97.8	87.3	89.8
1989	1.2618	137.96	na	0.6099	98.7	83.5	89.5
1990	1.2799	144.79	na	0.5603	90.8	75.2	96.6
1991	1.2835	134.71	na	0.5652	88.2	80.7	95.8
1992	1.3600	126.65	na	0.5664	86.3	83.2	100.5
1993	1.4703	111.20	na	0.6658	89.2	99.1	106.8
1994	1.3667	102.21	na	0.6529	87.4	105.2	110.5
1995	1.3486	94.06	na	0.6335	80.5	110.3	119.9
1996	1.2772	108.78	na	0.6403	82.2	93.9	118.7
1997	1.3440	120.99	na	0.6106	86.5	89.4	111.2
1998	1.5888	130.91	na	0.6037	91.6	83.4	108.8
1999	1.5496	113.91	0.939	0.6180	90.6	94.3	106.4
2000	1.7172	107.77	1.085	0.6596	100.0	100.0	100.0
2001	1.9319	121.53	1.118	0.6945	103.8	89.4	100.1
2002	1.8386	125.39	1.063	0.6661	105.8	80.2	99.3
2003	1.5340	115.00	0.880	0.6119	96.7	77.1	102.0
2004	1.3569	108.00	0.800	0.5459	88.6	77.9	100.8
2005	1.4870	110.00	0.800	0.5493	90.0	74.6	98.4

^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 %
1960	na	2.5	na	13.0	na	-1.5	1.2
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	3.5	1.6	2.8	2.7	10.2	4.0

^a Regarded as nineteen countries for all years. ^b Gross national product. Excludes Hong Kong. **na** Not available.
 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	7.3	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	3.2	0.7	2.6	1.8	9.9	15.8
1984	6.9	9.1	9.3	3.0	0.6	6.5	14.9	15.0
1985	8.0	1.3	3.6	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	9.4	3.6	5.2	5.4	17.4	13.3
1989	4.6	0.9	5.8	4.9	2.1	3.3	6.0	3.4
1990	2.4	0.9	4.2	5.2	0.0	1.6	5.5	8.6
1991	-3.6	-1.5	1.9	3.5	-3.3	-0.4	12.8	9.5
1992	0.3	2.8	-5.7	-2.4	0.4	-0.3	21.2	6.0
1993	2.9	3.3	-3.5	-7.9	2.2	-0.5	21.9	4.4
1994	5.0	5.4	1.3	3.2	5.3	4.6	21.6	11.1
1995	1.2	4.9	3.8	0.8	1.8	3.4	16.1	12.1
1996	3.7	4.3	2.3	0.2	1.4	2.5	13.1	8.3
1997	2.0	7.3	3.5	3.1	1.4	4.8	11.3	5.0
1998	3.0	5.8	-6.6	3.7	0.2	1.8	8.9	-6.9
1999	3.3	4.5	0.3	1.2	2.2	3.0	8.5	24.1
2000	5.4	4.3	5.4	5.5	1.9	4.9	11.4	17.3
2001	0.1	-3.6	-6.3	0.2	-1.5	-2.6	9.9	0.4
2002	2.9	-0.3	-1.1	-1.0	-2.0	-0.4	12.6	8.2
2003	0.5	-0.0	3.0	0.4	-0.3	0.7	17.0	5.2
2004	0.0	4.2	5.3	3.0	0.8	3.6	16.7	10.0
2005	1.0	3.7	1.2	3.4	-1.8	2.4	na	5.9

^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 Yearbook*, Washington DC; OECD, *Main Economic Indicators*, Paris.

15 Inflation and interest rates in selected countries

	Inflation rates ^a			Interest rates ^b			
	United States		Euro Area ^c	United States		Japan	
	Short term	Long term		Short term	Long term	Short term	Long term
	%	%	%	%	%	%	%
1960	1.5	3.6	1.9	2.9	4.1	na	na
1961	1.1	5.4	1.9	2.4	3.9	na	na
1962	1.1	6.8	3.2	2.8	3.9	na	na
1963	1.2	7.7	3.1	3.2	4.0	na	na
1964	1.3	3.8	2.6	3.6	4.2	na	na
1965	1.7	6.6	3.3	4.0	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	5.4	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	9.9	9.2
1981	10.3	4.9	11.3	14.1	13.9	7.7	8.7
1982	6.2	2.7	9.6	10.7	13.0	7.1	8.1
1983	3.2	1.9	8.7	8.6	11.1	6.7	7.4
1984	4.3	2.3	7.8	9.4	12.4	6.3	6.8
1985	3.6	2.0	4.9	7.5	10.6	6.7	6.3
1986	1.9	0.6	2.4	6.0	7.7	5.0	4.9
1987	3.7	0.1	2.4	5.8	8.4	3.9	4.2
1988	4.0	0.7	2.7	6.7	8.8	4.1	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	3.2	5.0	5.4	7.9	7.3	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	3.0	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	1.7	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	-0.7	2.1	3.5	5.0	0.1	1.3
2002	1.6	-0.9	2.2	1.6	4.6	0.1	1.3
2003	2.3	-0.3	2.1	1.0	4.0	0.1	1.0
2004	2.7	-0.0	2.1	1.4	4.3	0.1	1.5
2005	3.4	-0.3	na	3.2	4.3	0.3	1.4

^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.

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Population in selected countries and regions ^a

	Australia million	United States million	European Union ^b million	Japan million	China million	Other East Asia ^c million	India million	World ^d million
1960	10.3	186.2	296.3	94.1	657.5	187.6	442.3	3 021.5
1961	10.5	189.1	298.9	95.0	669.4	192.5	452.5	3 084.8
1962	10.8	192.0	301.6	95.9	682.4	197.5	462.8	3 148.0
1963	11.0	194.7	304.4	96.9	696.6	202.6	473.3	3 211.3
1964	11.3	197.3	307.2	97.9	712.1	207.8	484.1	3 274.6
1965	11.5	199.8	309.7	98.9	729.2	213.1	495.2	3 337.8
1966	11.8	202.1	312.0	99.9	747.8	218.6	506.5	3 409.7
1967	12.0	204.2	314.1	100.9	767.7	224.3	518.2	3 481.5
1968	12.3	206.2	316.1	101.9	788.5	230.0	530.2	3 553.4
1969	12.5	208.2	317.9	103.1	809.7	235.9	542.4	3 625.3
1970	12.7	210.1	319.8	104.3	830.7	241.8	554.9	3 697.1
1971	12.9	212.1	321.6	105.7	851.4	247.7	567.7	3 773.1
1972	13.1	214.1	323.3	107.2	871.9	253.7	580.8	3 849.1
1973	13.3	216.1	325.0	108.7	891.6	259.8	594.0	3 925.0
1974	13.4	218.1	326.6	110.2	910.4	265.9	607.4	4 001.0
1975	13.6	220.2	328.0	111.5	927.8	272.2	620.7	4 077.0
1976	13.8	222.2	329.4	112.8	943.8	278.5	634.0	4 150.5
1977	14.0	224.3	330.8	113.9	958.4	284.8	647.4	4 223.9
1978	14.2	226.5	332.0	114.9	972.1	291.2	660.8	4 297.4
1979	14.4	228.7	333.1	115.9	985.5	297.7	674.6	4 370.9
1980	14.6	230.9	334.0	116.8	998.9	304.1	688.9	4 444.4
1981	14.8	233.3	334.7	117.7	1 012.4	310.5	703.6	4 524.7
1982	15.0	235.7	335.4	118.6	1 026.0	316.9	718.7	4 605.1
1983	15.2	238.1	336.0	119.4	1 040.0	323.3	734.2	4 685.5
1984	15.4	240.6	336.6	120.1	1 054.6	329.7	750.0	4 765.8
1985	15.7	243.1	337.4	120.8	1 070.2	336.0	766.1	4 846.3
1986	15.9	245.5	338.3	121.5	1 086.8	342.3	782.3	4 934.0
1987	16.1	247.9	339.3	122.1	1 104.3	348.5	798.8	5 021.7
1988	16.4	250.4	340.5	122.6	1 122.1	354.6	815.5	5 109.4
1989	16.6	252.9	341.7	123.1	1 139.3	360.8	832.4	5 197.1
1990	16.9	255.5	343.0	123.5	1 155.3	361.3	849.4	5 284.8
1991	17.1	258.2	344.5	124.0	1 169.9	367.4	866.5	5 371.2
1992	17.3	261.0	346.0	124.4	1 183.3	373.5	883.7	5 457.5
1993	17.5	263.8	347.5	124.8	1 195.7	379.6	901.0	5 543.8
1994	17.7	266.7	348.9	125.1	1 207.6	385.6	918.3	5 630.1
1995	17.9	269.6	350.3	125.5	1 219.3	391.6	935.6	5 716.4
1996	18.2	272.5	351.5	125.8	1 231.0	397.6	952.8	5 804.8
1997	18.4	275.4	352.5	126.1	1 242.4	403.4	970.0	5 891.8
1998	18.6	278.4	353.5	126.5	1 253.5	409.2	987.2	5 901.1
1999	18.8	281.3	354.5	126.8	1 264.1	414.9	1 004.2	5 978.4
2000	19.1	284.2	355.7	127.0	1 274.0	420.6	1 021.1	6 111.4
2001	19.3	287.0	357.0	127.3	1 283.2	426.2	1 037.8	6 172.0
2002	19.5	289.8	358.4	127.5	1 291.8	431.8	1 054.4	6 251.0
2003	19.7	292.6	359.8	127.7	1 300.0	437.2	1 070.8	6 331.0
2004	19.9	295.4	361.2	127.9	1 308.0	442.7	1 087.1	6 408.0
2005	20.2	298.2	362.4	128.1	1 315.8	448.0	1 103.4	6 484.0

^a Midyear. ^b Regarded as twelve countries for all years. ^c Chinese Taipei, Indonesia, Malaysia, the Philippines, Republic of Korea, Singapore, Thailand. ^d United Nations estimates.

Sources: ABS, *Estimated Resident Population by Sex and Age: States and Territories of Australia*, cat. no. 3201.0, Canberra; Asian Development Bank, *Key Indicators of Developing Asian and Pacific Countries*, Manila; International Monetary Fund, *International Financial Statistics Yearbook*, Washington DC; OECD, *Main Economic Indicators*, Paris; United Nations, *World Population Prospects*, New York.

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
1961-62	2 734	1 781	953	245	24.7	11.7	211.2	9.3
1962-63	3 013	1 865	1 148	289	25.4	11.7	217.1	9.3
1963-64	3 424	1 953	1 471	367	27.4	11.7	234.5	9.4
1964-65	3 450	2 093	1 357	326	26.7	12.1	220.0	9.7
1965-66	3 316	2 250	1 066	245	27.4	12.6	217.3	10.1
1966-67	3 825	2 415	1 410	320	27.4	13.1	209.6	10.4
1967-68	3 342	2 472	870	189	26.7	13.5	198.5	10.7
1968-69	3 947	2 673	1 274	272	26.0	13.5	193.4	11.0
1969-70	3 732	2 668	1 064	218	25.4	13.5	188.4	11.4
1970-71	3 569	2 713	856	166	23.9	13.9	171.6	11.9
1971-72	3 971	2 793	1 178	216	26.0	14.9	175.3	12.7
1972-73	4 962	3 103	1 859	324	35.6	16.2	219.9	13.5
1973-74	6 412	3 594	2 818	438	43.1	18.4	234.3	15.2
1974-75	5 874	4 196	1 678	221	36.9	23.4	158.0	17.8
1975-76	6 170	4 832	1 338	156	39.0	27.0	144.3	20.0
1976-77	6 755	5 278	1 477	150	42.5	30.1	141.1	22.8
1977-78	6 984	5 742	1 242	115	44.5	33.3	133.8	25.0
1978-79	10 204	6 629	3 575	316	54.0	35.5	152.1	27.0
1979-80	11 764	7 761	4 003	316	64.3	39.5	162.7	29.8
1980-81	11 580	8 739	2 841	205	68.4	44.9	152.2	32.6
1981-82	12 704	10 205	2 499	162	67.7	49.9	135.7	36.0
1982-83	11 708	11 403	305	14	71.1	55.3	128.6	40.1
1983-84	15 396	12 255	3 141	177	74.6	59.8	124.8	42.9
1984-85	15 377	12 896	2 481	138	76.6	63.4	121.0	44.7
1985-86	15 381	14 051	1 330	70	76.6	68.3	112.2	48.5
1986-87	17 282	15 386	1 896	77	82.8	74.2	111.5	53.0
1987-88	19 962	16 727	3 235	139	99.5	77.4	128.5	56.9
1988-89	22 845	18 330	4 515	187	112.4	84.4	133.2	61.0
1989-90	23 591	20 008	3 583	136	109.3	90.1	121.3	65.9
1990-91	21 207	20 168	1 039	31	93.6	90.9	102.9	69.4
1991-92	21 168	19 392	1 776	47	94.5	90.8	104.1	70.7
1992-93	21 990	19 340	2 650	89	93.7	89.5	104.7	71.5
1993-94	23 647	20 187	3 460	109	97.4	91.1	106.8	72.8
1994-95	23 794	21 708	2 086	72	112.0	95.0	118.0	75.1
1995-96	27 515	22 913	4 602	144	111.2	99.5	111.8	78.3
1996-97	28 449	23 910	4 540	147	101.6	99.4	102.2	79.3
1997-98	28 526	23 885	4 641	144	100.0	100.0	100.0	79.3
1998-99	28 844	24 511	4 333	135	96.1	100.6	95.6	80.3
1999-00	30 468	25 223	5 245	149	96.3	104.7	92.0	82.2
2000-01	34 432	26 657	7 776	217	108.5	110.1	98.5	87.2
2001-02	39 528	27 258	12 270	297	122.5	112.9	108.6	89.6
2002-03	32 586	27 766	4 820	115	122.6	121.3	101.1	92.4
2003-04	36 888	29 292	7 596	171	116.5	123.0	94.7	94.6
2004-05	35 894	29 768	6 126	137	115.2	126.6	91.0	96.9
2005-06	38 517	30 663	7 855	100	124.7	131.6	94.7	100.0

a Obtained by deflating the net value of farm production by the consumer price index. **b** base year 2005-06 = 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.

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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
1960-61	28.9	25.0	25.7	32.6	79.2	53.6	37.0
1961-62	24.7	23.2	24.0	39.3	83.1	58.3	38.5
1962-63	29.7	27.0	27.8	43.3	82.3	59.4	41.5
1963-64	31.2	28.7	28.7	45.6	86.4	62.9	43.3
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	59.3	106.0	83.4	109.8	95.4	104.2	93.6
2003-04	138.6	113.5	123.0	104.4	92.4	99.6	111.9
2004-05	113.2	121.3	116.8	109.3	93.3	103.1	110.7
2005-06	133.1	104.7	115.4	108.6	92.0	102.1	109.5

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 \$m	Other crops \$m	Total crops \$m	Livestock slaughterings \$m	Livestock products \$m	Total livestock \$m	Total farm \$m
1960-61	538	533	1 071	567	1 107	1 674	2 745
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	13 202	22 845
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	6 117	10 737	6 046	5 207	11 252	21 990
1993-94	5 157	6 448	11 606	6 874	5 167	12 041	23 647
1994-95	3 997	7 121	11 119	6 680	5 995	12 676	23 794
1995-96	7 470	7 907	15 377	6 431	5 707	12 138	27 515
1996-97	8 133	8 186	16 319	6 376	5 754	12 130	28 449
1997-98	6 715	8 861	15 576	6 992	5 958	12 950	28 526
1998-99	7 134	9 042	16 177	7 256	5 412	12 667	28 844
1999-00	8 082	8 970	17 052	7 944	5 472	13 417	30 468
2000-01	8 701	10 029	18 730	9 738	5 965	15 702	34 432
2001-02	10 875	10 385	21 260	11 434	6 834	18 268	39 528
2002-03	5 440	9 988	15 428	10 676	6 482	17 158	32 586
2003-04	9 836	10 541	20 377	10 896	5 615	16 511	36 888
2004-05	7 359	10 711	18 070	12 030	5 794	17 824	35 894
2005-06	9 999	10 845	20 844	12 007	5 666	17 673	38 517

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)

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Grains and oilseeds								
Wheat (including flour)	3 467	3 481	4 197	4 612	3 109	3 475	3 488	3 296
Barley (including malt)	877	822	1 101	1 278	954	1 239	1 274	1 108
Oats	38	27	22	37	66	66	36	47
Sorghum	46	81	122	109	17	61	96	33
Rice	417	386	369	354	371	145	173	176
Lupins	155	235	166	109	57	148	89	101
Peas ^a	63	90	112	157	43	56	33	43
Chickpeas	50	101	113	167	52	71	65	107
Canola	558	638	544	572	289	453	397	331
Cottonseed	91	122	137	148	82	62	55	53
Other oilseeds ^b	25	29	28	20	21	25	33	20
Total	5 785	6 013	6 910	7 563	5 062	5 800	5 739	5 314
Industrial crops								
Raw cotton ^c	1 559	1 407	1 958	1 547	1 153	982	770	1 137
Sugar	1 385	1 095	1 178	1 430	1 220	982	1 098	1 550
Wine	991	1 347	1 614	1 970	2 386	2 494	2 715	2 757
Total	3 934	3 849	4 751	4 948	4 759	4 458	4 583	5 444
Other crops	2 487	2 780	3 145	3 432	3 420	3 096	3 186	3 214
Total crops	12 206	12 643	14 805	15 943	13 241	13 354	13 508	13 973
Meat and live animals for slaughter								
Beef and veal	2 863	3 119	4 007	4 189	3 756	3 793	4 584	4 272
Live cattle	343	433	482	526	567	318	374	358
Mutton	309	326	416	490	346	379	418	431
Lamb	305	369	508	626	554	636	700	782
Live sheep	182	180	258	392	408	266	207	291
Pig meat	71	159	186	265	256	181	150	140
Poultry meat	23	21	26	26	22	20	20	21
Canned meat	53	50	16	39	17	12	12	12
Total	4 095	4 606	5 882	6 514	5 910	5 594	6 452	6 295
Wool								
Greasy ^d	1 457	1 796	2 310	2 271	2 266	1 850	1 994	1 868
Semiprocessed	994	1 031	1 289	1 119	991	632	505	389
Skins	132	136	298	297	288	296	339	287
Total ^d	2 583	2 963	3 897	3 687	3 545	2 778	2 838	2 544
Dairy products								
Butter	294	291	291	297	224	182	188	224
Cheese	695	807	950	1 033	800	738	875	836
Casein	73	93	100	123	128	122	116	89
Skim milk powder	496	478	694	698	406	386	420	529
Wholemilk powder	364	403	580	571	380	321	324	334
Other dairy products	369	419	485	556	555	540	564	559
Total	2 291	2 491	3 100	3 278	2 493	2 290	2 488	2 570
Other livestock exports	1 444	1 452	1 884	1 771	1 977	2 224	2 329	2 279
Total livestock exports	10 413	11 512	14 763	15 250	13 924	12 885	14 108	13 689
Total farm exports	22 620	24 154	29 568	31 193	27 164	26 240	27 615	27 662

^a Field peas and cowpeas. ^b Includes soybeans, linseed, sunflowerseed, safflowerseed and peanuts. Excludes meals and oils. ^c Excludes cotton waste and linters. ^d On a balance of payments basis. ABS recorded trade data adjusted for changes in stock levels held overseas by Wool International.

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

21 Value of Australian agricultural exports (fob), by destination

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa								
Egypt	578	500	543	721	332	657	228	472
South Africa	168	152	196	133	127	123	118	117
Total	1 164	985	1 287	1 538	900	1 167	735	1 027
Americas								
United States	1 684	2 041	2 885	3 332	2 949	3 014	3 128	2 988
Canada	452	441	545	487	519	381	490	531
Total	2 482	2 779	3 857	4 245	3 836	3 770	3 878	3 821
North Asia								
China	1 330	1 831	2 189	2 331	2 129	2 209	2 736	3 100
Chinese Taipei	733	740	794	760	737	642	688	737
Japan	3 938	4 134	4 868	4 339	3 905	4 320	5 292	5 033
Korea, Rep. of	1 093	1 161	1 433	1 392	1 310	1 266	1 673	1 813
Total	7 545	8 337	9 875	9 446	8 609	8 654	10 745	11 075
South East Asia								
Indonesia	1 069	1 067	1 559	1 603	1 450	1 407	1 508	1 538
Malaysia	788	752	1 074	777	621	842	991	1 004
Philippines	598	628	695	629	484	378	343	269
Singapore	429	533	567	611	548	450	535	501
Thailand	514	526	670	596	543	504	493	545
Total	3 595	3 736	4 858	4 511	3 888	3 794	4 125	4 096
South Asia	1 183	1 262	1 211	1 225	649	771	813	732
Middle East	1 871	2 004	2 897	3 272	2 080	2 132	1 953	2 204
Europe								
European Union ^a	2 510	2 581	3 382	3 063	2 867	2 641	2 645	2 505
Russian Federation	31	22	74	88	65	76	116	188
Total	2 588	2 637	3 468	3 167	2 989	2 750	2 815	2 742
Oceania	921	976	1 123	1 202	1 284	1 230	1 355	1 372
New Zealand	625	672	791	861	936	920	1 025	1 054
Other ^b	1 271	1 439	992	2 588	2 930	1 972	1 196	593
Total	22 620	24 154	29 568	31 193	27 164	26 240	27 615	27 662

^a Twenty five countries. ^b Includes commodities such as rice and lupins for which export data are not available by destination.

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

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

22 Indexes of prices received by farmers in Australia

	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Crops sector									
Grains and oilseeds									
Wheat	110.6	102.0	69.0	103.8	93.4	88.3	124.9	136.3	107.5
Barley	109.2	111.2	75.3	86.2	92.8	79.0	135.1	143.7	116.6
Sorghum	89.3	85.6	80.3	83.7	94.1	85.9	112.3	119.0	106.7
Oats	92.8	79.4	72.1	78.8	78.9	65.6	131.3	112.9	100.3
Lupins	105.4	118.9	115.0	88.8	106.1	96.2	95.3	106.7	111.8
Canola	76.8	66.5	62.3	61.8	69.7	77.3	80.0	81.4	75.6
Total	107.7	102.1	75.7	95.3	94.2	89.9	120.9	126.1	105.1
Cotton	79.3	98.9	104.6	88.3	91.8	98.6	123.5	121.3	103.1
Sugar	96.5	109.8	102.6	90.4	89.6	102.8	112.7	110.2	100.0
Hay	74.1	80.3	95.1	95.6	77.3	78.3	108.8	102.3	93.6
Fruit	88.2	85.5	90.6	95.1	85.4	87.0	101.1	103.0	109.6
Wine grapes	49.5	59.6	46.7	53.8	52.5	58.0	72.8	82.4	88.5
Vegetables	112.4	122.5	86.5	89.8	94.3	100.6	115.1	115.2	100.9
Total crops sectors	102.1	103.2	84.9	93.4	91.9	92.5	115.2	118.2	104.1
Livestock sector									
Livestock for slaughter									
Cattle	119.9	129.2	123.2	117.9	117.0	134.1	126.1	104.9	93.0
Lambs	70.1	64.2	52.8	58.4	85.2	97.6	89.9	116.9	121.4
Sheep	69.3	29.4	8.8	21.4	39.0	48.4	58.3	85.9	85.0
Live sheep for export	79.2	78.0	34.7	47.8	55.7	66.8	82.8	98.5	92.7
Pigs	105.2	106.5	114.0	101.0	98.4	95.3	96.4	122.4	123.2
Poultry	98.6	100.4	100.7	93.6	97.7	101.7	98.2	99.6	107.2
Total	105.9	108.7	102.9	99.1	102.4	113.9	109.9	106.5	101.0
Livestock products									
Wool	156.5	131.9	99.7	86.7	75.1	75.2	115.4	93.3	91.9
Milk	82.9	88.8	90.7	93.2	102.3	99.2	96.5	108.2	103.4
Eggs	107.5	99.0	96.4	92.0	95.3	91.4	88.6	101.7	105.2
Honey	58.8	60.0	71.1	80.8	82.3	76.8	81.7	90.2	101.6
Total	133.3	118.7	98.1	90.6	87.4	86.1	105.8	100.8	98.1
Store and breeding stock	92.3	88.6	82.0	79.7	78.8	95.0	96.7	96.1	89.4
Total livestock sector	118.7	112.4	99.1	93.7	93.6	99.9	107.0	103.2	98.8
Total prices received	112.4	109.3	93.6	94.5	93.7	97.4	112.0	111.2	101.6

Continued

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Crops sector									
Grains and oilseeds									
Wheat	100.0	94.5	98.7	117.4	132.3	134.4	109.1	99.6	114.9
Barley	100.0	87.7	107.9	125.1	130.8	159.9	105.9	100.1	121.2
Sorghum	100.0	88.1	72.6	85.1	102.2	120.9	93.8	79.4	105.3
Oats	100.0	63.7	77.5	96.5	128.2	160.3	101.1	98.1	126.0
Lupins	100.0	72.9	74.3	104.9	127.7	149.0	120.4	105.2	106.1
Canola	100.0	98.7	80.1	79.6	99.7	100.9	104.4	84.5	96.0
Total	100.0	92.0	94.5	108.7	123.7	134.0	105.2	95.7	111.9
Cotton	100.0	88.4	97.4	106.1	92.7	100.1	88.2	87.0	85.0
Sugar	100.0	93.2	72.2	70.4	88.5	83.2	76.3	84.1	90.6
Hay	100.0	98.4	100.0	110.7	104.2	155.0	125.0	128.0	147.8
Fruit	100.0	108.7	100.0	102.0	117.8	108.9	123.9	114.3	187.7
Wine grapes	100.0	109.7	99.3	108.7	110.2	100.5	96.2	81.5	76.3
Vegetables	100.0	108.2	100.4	107.5	104.3	123.8	124.6	122.2	141.2
Total crops sectors	100.0	96.9	94.9	104.7	113.6	118.7	106.3	99.3	116.3
Livestock sector									
Livestock for slaughter									
Cattle	100.0	105.6	119.3	144.2	167.7	145.0	160.4	177.2	178.6
Lambs	100.0	101.9	94.8	104.1	167.2	176.7	190.1	184.3	183.8
Sheep	100.0	83.7	69.5	117.9	204.7	185.4	230.3	195.4	202.0
Live sheep for export	100.0	94.0	95.3	111.4	156.1	179.3	178.0	164.1	176.1
Pigs	100.0	94.2	110.2	113.7	123.6	109.7	109.4	117.8	112.6
Poultry	100.0	94.1	90.2	90.1	93.0	98.5	97.7	91.9	93.1
Total	100.0	100.9	108.4	126.0	151.5	139.1	149.2	157.4	158.2
Livestock products									
Wool	100.0	79.2	81.4	98.3	113.9	153.2	116.5	107.4	98.4
Milk	100.0	95.5	87.9	97.0	110.5	90.7	93.4	105.7	109.2
Eggs	100.0	85.3	84.0	79.1	82.8	92.4	89.2	85.4	91.2
Honey	100.0	101.1	94.3	94.3	115.0	130.5	131.3	129.4	134.5
Total	100.0	87.5	84.5	95.6	109.0	114.0	101.6	104.6	103.8
Store and breeding stock	100.0	100.9	105.0	126.0	145.3	125.9	144.0	159.5	163.2
Total livestock sector	100.0	95.2	97.9	113.0	133.4	128.1	129.3	135.4	135.5
Total prices received	100.0	96.1	96.3	108.5	122.5	122.6	116.5	115.2	124.7

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 area of farms million ha	Livestock numbers ^b		
	Wheat million ha	Other crops ^c million ha		Beef cattle million	Dairy cattle million	Sheep million
1962-63	6.7	2.6	476.6	13.47	5.08	158.63
1963-64	6.7	2.7	479.4	13.78	4.62	164.98
1964-65	7.3	2.8	481.9	13.65	4.54	170.62
1965-66	7.1	3.0	486.3	12.98	4.41	157.56
1966-67	8.4	3.4	487.0	13.36	4.34	164.24
1967-68	9.1	3.0	489.6	14.42	4.24	166.91
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	21.82	2.67	131.44
1981-82	11.9	5.9	490.8	21.23	2.66	135.02
1982-83	11.5	5.7	483.8	19.21	2.64	130.51
1983-84	12.8	7.3	488.6	18.85	2.69	135.14
1984-85	12.0	7.3	489.2	19.44	2.71	145.67
1985-86	11.7	6.5	468.3	20.14	2.66	150.40
1986-87	11.1	5.4	471.0	18.75	2.56	153.18
1987-88	9.0	7.3	472.0	18.73	2.50	156.54
1988-89	8.8	6.8	466.9	19.33	2.48	164.91
1989-90	9.0	6.2	464.3	20.07	2.46	173.78
1990-91	9.2	6.6	462.8	21.23	2.43	166.57
1991-92	7.2	7.5	466.0	21.45	2.43	151.00
1992-93	9.1	7.5	460.1	21.56	2.50	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	22.82	3.22	115.46
1999-00	12.2	9.9	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	24.73	3.06	101.13
2005-06	13.0	10.6	na	25.51	3.05	100.13

^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, field peas, lupins, oats, triticale, maize, rice, sorghum, soybeans, sunflowerseed, linseed, safflowerseed, sugar cane and winegrapes. Excludes winegrapes before 1974-75. **na** Not available.

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

24 Number of agricultural establishments and rural employment in Australia

	Agricultural establishments ^a no.	Rural employment ^b			Total '000
		Employers and self-employed '000	Wage and salary earners '000	Contributing family workers '000	
1962-63	201 600	na	na	na	na
1963-64	201 000	na	na	na	na
1964-65	200 350	na	na	na	na
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	214.1	188.8	18.9	421.8
1999-00	146 371	218.6	196.0	23.4	438.0
2000-01	140 516	212.0	201.0	22.2	435.1
2001-02	135 377	214.8	216.5	13.0	444.4
2002-03	132 983	183.2	184.0	10.2	377.4
2003-04	130 526	175.5	189.3	9.8	374.5
2004-05	129 934	170.5	185.7	10.0	366.2
2005-06	na	165.2	180.6	10.2	356.0

^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	16 281	34 305
2002-03	4 487	1 363	5 655	3 545	14 809	29 859
2003-04	5 094	1 123	5 758	2 778	14 105	28 858
2004-05	5 159	1 292	6 937	2 838	14 124	30 350
2005-06	4 853	1 786	6 713	2 544	14 541	30 437

^a On a balance of payments basis. ^b Includes other farm, forest and fisheries products. Also includes wine, paper and paperboard, and tuna transhipped at sea or captured under joint venture agreements, which are not included in rural exports by the ABS.
Sources: ABS, *Balance of Payments, Australia*, cat. no. 5302.0, Canberra; ABARE.

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
1988-89	13 963	21 021	1 292	3 066
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	19 883	37 202	1 591	5 025
2000-01	20 280	34 697	1 761	5 286
2001-02	19 783	39 241	1 633	4 933
2002-03	19 623	17 402	1 097	2 868
2003-04	21 982	43 386	1 211	3 679
2004-05	22 444	34 711	1 340	3 887
2005-06	21 376	40 748	1 581	4 542

^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.

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								
1996-97	'000 ha	4 676	2 331	1 225	6 793	3 048	28	18 102
1997-98	'000 ha	4 543	2 315	1 213	7 141	3 047	27	18 260
1998-99	'000 ha	4 927	2 454	1 420	7 419	3 376	27	19 582
1999-00	'000 ha	4 976	2 740	1 323	7 466	3 385	25	19 883
2000-01	'000 ha	5 398	2 707	1 126	7 390	3 667	28	20 280
2001-02	'000 ha	5 309	2 684	788	7 173	3 866	na	19 783
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	3 126	878	7 936	4 019	23	22 444
2005-06	'000 ha	5 289	2 926	1 167	7 975	3 989	29	21 376
Production								
1996-97	Kt	11 285	4 599	2 469	11 192	5 458	65	35 071
1997-98	Kt	8 558	3 398	1 637	12 097	5 360	66	31 116
1998-99	Kt	9 718	3 508	2 322	12 232	6 304	74	34 159
1999-00	Kt	11 539	5 236	2 223	13 325	4 817	61	37 202
2000-01	Kt	10 834	6 232	1 340	8 726	7 486	75	34 697
2001-02	Kt	11 171	5 873	1 142	12 050	8 927	75	39 241
2002-03	Kt	3 505	1 955	836	6 812	4 227	65	17 402
2003-04	Kt	10 766	6 941	1 472	16 682	7 450	70	43 386
2004-05	Kt	10 724	4 203	1 384	12 472	5 849	77	34 711
2005-06	Kt	11 476	5 919	1 684	14 290	7 314	65	40 748
Summer ^b								
Area								
1996-97	'000 ha	655	5	689	2	0	0	1 431
1997-98	'000 ha	617	5	640	2	1	0	1 335
1998-99	'000 ha	885	3	721	3	2	1	1 741
1999-00	'000 ha	742	3	771	2	0	0	1 591
2000-01	'000 ha	825	4	816	2	0	0	1 761
2001-02	'000 ha	777	3	794	0	1	0	1 633
2002-03	'000 ha	509	1	521	0	0	0	1 097
2003-04	'000 ha	436	4	708	1	0	0	1 211
2004-05	'000 ha	493	2	773	0	0	0	1 340
2005-06	'000 ha	736	3	765	4	0	0	1 581
Production								
1996-97	Kt	2 774	16	1 485	7	0	0	4 374
1997-98	Kt	2 588	19	1 139	5	2	0	3 823
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	15	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	1	0	0	3 887
2005-06	Kt	2 775	12	1 646	10	0	0	4 542

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 establish- ments at 30 June no.	Employ- ment at 30 June ^b no.	Wages and salaries ^c \$m	Turnover \$m	Stocks		Purchases, transfers in and selected expenses \$m	Value added \$m
					Opening \$m	Closing \$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	59 708	4 077	34 234	2 786	3 354	12 380	22 422
1997-98	528	58 978	4 157	37 558	3 353	3 318	13 540	23 770
1998-99	527	55 236	3 910	37 524	3 471	3 296	13 230	24 120
1999-00	529	52 681	4 169	42 632	3 897	4 146	12 705	24 412
2000-01	na	53 384	5 620	55 954	4 008	3 496	na	32 674
2001-02	na	56 910	6 094	59 604	3 603	4 309	na	35 364
2002-03	na	60 806	6 607	62 794	4 171	4 264	na	37 021
2003-04	na	64 983	6 958	60 391	3 984	4 216	na	34 481
2004-05	na	64 147	7 452	71 046	4 101	4 745	na	39 945
2005-06	na	80 521	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. **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 Industry, Australia*, cat. no. 8401.0, Canberra; ABS, *The Australian Mining Industry*, cat. no. 8414.0, Canberra; ABS, *Mining Operations, Australia*, cat. nos. 8402.0 and 8415.0, Canberra.

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

	Gross value of minerals produced ab					Exploration expenditure de	Mineral royalties f
	Metallics	Coal and petroleum	Construction materials c	Non-metallics	Total		
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1968	468	250	97	37	852	na	22
1969	689	285	120	48	1 142	na	28
1970	815	439	137	59	1 450	na	43
1971	883	553	146	66	1 648	na	61
1972	931	689	162	85	1 867	na	67
1973	1 134	822	173	113	2 242	na	73
1974	1 429	959	207	115	2 710	na	99
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 j	15 193	826 h	361 l	22 108 j	1 230	735
1986	5 963 j	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	1 336	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	1 576	1 745
1995-96	12 793	15 986	na	na	28 779	1 685	1 867
1996-97	13 617	17 912	na	na	31 358	2 001	2 268
1997-98	14 696	19 517	na	na	34 213	2 048	2 423
1998-99	15 228	18 955	na	na	34 182	1 706	2 059
1999-00	14 234	20 065	na	na	34 299	1 399	2 788
2000-01	18 748	26 245	871	1 488	52 270	1 727	3 967
2001-02	19 531	31 126	1 221	2 685	54 562	1 523	4 004
2002-03	19 352	29 321	1 317	2 979	52 969	1 728	3 926
2003-04	20 425	26 340	1 396	2 450	50 611	1 731	3 749
2004-05	25 678	37 059	1 447	2 657	66 841	2 073	3 596
2005-06	na	na	na	na	na	2 503	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 Operations, Australia*, cat. nos. 8402.0 and 8415.0, Canberra; ABS, *Mineral Exploration, Australia*, cat. no. 8407.0, Canberra; ABS, *Actual and Expected Private Mineral 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	639	57	696	449	100	36	584	56	1 336
1989-90	583	52	635	341	118	39	498	57	1 190
1990-91	583	36	618	301	172	45	518	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	682	46	728	555	201	37	792	55	1 576
1995-96	725	60	785	547	252	40	839	61	1 685
1996-97	853	84	936	728	207	59	994	71	2 001
1997-98	981	87	1 068	648	227	55	930	50	2 048
1998-99	868	55	923	486	177	70	733	49	1 706
1999-00	723	47	770	375	157	64	596	33	1 399
2000-01	1 044	50	1 093	370	165	69	604	30	1 727
2001-02	883	59	942	331	133	87	551	30	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

^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, *Actual and Expected Private Mineral Exploration, Australia*, cat. no. 8412.0, Canberra.

31 Private new capital expenditure

	Mining ^a	Manufacturing	Other selected industries	All industries
	\$m	\$m	\$m	\$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	18 069	15 447	38 597	72 113

^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, Australia, Actual and Expected Expenditure, Preliminary*, cat. no. 5625.0, Canberra;
 ABS, *Private New Capital Expenditure, Australia*, cat. no. 5626.0, Canberra; ABARE.

32 Australian production of mineral commodities

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Bauxite	Mt	51	55	54	54	56	58	61
Coal								
Black								
Salable	Mt	239	258	273	275	286	305	306
Raw	Mt	299	321	345	349	360	393	398
Brown	Mt	67	68	69	69	70	71	71
Copper in mine products ^s	kt	793	875	882	883	811	905	920
Diamonds	'000 ct	29 672	22 475	30 676	32 006	24 310	32 471	25 354
Gold in mine products ^s	t	299	296	265	278	267	266	250
Iron ore and concentrate	Mt	160	175	185	199	223	252	264
Lead in mine products ^s	kt	690	724	744	695	677	682	761
Manganese ore and concentrate ^s	kt	1 755	1 963	1 850	2 472	3 094	3 563	4 081
Nickel in mine products ^s	kt	143	195	193	183	185	192	183
Petroleum								
Crude oil and condensate	ML	37 447	39 839	37 820 ^s	35 142 ^s	30 719 ^s	27 311 ^s	24 320 ^s
LPG (naturally occurring)	ML	4 832	4 558	4 647	4 681	4 639	4 628	4 722
Natural gas and ethane	GL	33	34	36	37	37	41	42
Salt ^s	kt	9 610	9 492	9 233	10 438	10 618	12 254	11 763
Silver in mine products ^s	t	1 889	2 021	2 106	1 905	2 056	2 303	2 218
Tin in mine products ^s	t	9 820	10 016	8 173	6 328	1 512	2 055	1 805
Titanium minerals								
Ilmenite	kt	2 134	2 092	1 843	2 069	1 910	1 993	2 172
Rutile	kt	185	209	207	208	154	174	181
Synthetic rutile ^s	kt	566	650	612	673	696	751	719
Titanium dioxide pigment ^s	kt	172	181	186	189	196	204	208
Uranium	t	8 217	9 549	7 823	9 172	9 569	10 964	9 974
Zinc in mine products ^s	kt	1 265	1 483	1 490	1 529	1 355	1 352	1 382
Zircon concentrate	kt	372	377	389	458	448	432	440

^s ABARE estimate.

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

33 Gross value of Australian mineral production, by commodity ^a

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m
Coal						
Black	10 228	11 621	14 525	12 724	11 566	17 718
Brown	na	520	533	534	531	843
Construction materials	na	871	1 237	1 338	1 413	1 467
Copper ore and concentrate ^b	1 503	2 303	2 509	2 260	2 542	3 777
Diamonds	na	634	506	788	520	467
Gemstones						
Opals	na	98	85	71	60	65
Sapphires	na	12	6	3	1	1
Gold bullion ^b	3 851	1 189	4 679	5 046	4 731	4 635
Iron ore and concentrate ^b	3 605	4 938	5 235	5 298	5 359	8 330
Lead ore and concentrate ^b	469	849	623	502	654	830
Manganese ore and concentrate ^b	na	210	267	275	282	478
Nickel ore and concentrate ^b	na	1 865	2 034	2 528	3 139	3 613
Petroleum						
Crude oil and condensate	} 11 295	12 127	12 641	13 372	14 157	14 325
LPG (naturally occurring)						
Natural gas and ethane						
Salt	na	264	273	260	211	239
Tin ore and concentrate ^b	na	176	65	45	14	13
Titanium minerals						
Ilmenite ^c	288	169	131	145	93	80
Rutile	184	117	119	106	99	63
Uranium	325	423	378	308	382	463
Zinc ore and concentrate ^b	934	1 768	2 187	1 927	1 846	2 059
Zircon concentrate	284	202	226	329	256	297
Total ^d	34 299	52 270	54 562	52 969	50 611	66 841

^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 Excludes value of ilmenite use for beneficiated ilmenite. ^d Includes components shown as not available. Data based on ABS mining collection (equivalent to ANZSIC subdivisions 11-13). ^s ABARE estimate. ^{na} Not available.

Sources: ABS, *Mineral 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
1962	160	40	74	46	31	18	5	375
1963	185	41	84	45	34	20	6	416
1964	233	45	97	45	39	25	7	493
1965	267	50	98	48	39	29	11	542
1966	262	53	138	80	42	35	13	624
1967	274	57	135	134	40	35	19	697
1968	298	59	186	195	42	45	25	852
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	na	10 910	26 272	2 130	504	1 374	52 270
2001-02	7 869	4 193	13 675	23 742	1 722	577	2 784	54 562
2002-03	6 797	4 006	12 388	25 089	1 683	536	2 470	52 969
2003-04	6 700	3 933	11 740	23 889	1 756	630	1 962	50 611
2004-05	9 188	4 626	16 849	30 288	2 404	701	2 783	66 841

^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 subdivisions 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. ^s ABARE estimate. ^{na} Not available.

Sources: ABS, *Mineral 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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Alumina	kt	14 207	15 037	16 098	16 417	16 413	16 690	17 161	17 826
Aluminium	kt	1 686	1 742	1 788	1 809	1 855	1 877	1 890	1 912
Blister copper a	kt	234	387	419	456	469	389	434	404
Copper	kt	306	477	517	561	537	458	479	461
Gold									
Australian origin	t	287	313	296	271	251	246	227	209
Overseas origin	t	20	12	16	20	65	80	76	66
Lead bullion a	kt	157	165	153	201	181	143	153	141
Lead b	kt	199	233	215	275	267	247	234	234
Nickel matte	kt	79	98	100	95	101	110	115	99
Nickel c	kt	77	101	121	131	130	125	126	111
Petroleum									
Automotive diesel oil	ML	12 968	12 737	13 212	13 064	13 335	12 544	12 822	10 154
Automotive gasoline	ML	18 705	18 652	17 887	18 000	17 984	17 375	17 913	16 528
Aviation turbine fuel	ML	5 218	5 539	5 836	5 390	5 149	4 964	5 325	5 216
Fuel oil	ML	1 634	1 839	1 951	1 684	1 441	1 105	1 092	1 048
Raw steel d	kt	8 549	8 053	8 003	8 611	9 399	9 430	7 395	7 884
Silver	t	410	543	532	616	672	619	722	655
Tin	t	595	602	1 039	829	708	553	445	736
Zinc	kt	323	405	534	572	570	502	464	446

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: DITR; ABARE.

36 Prices of mineral commodities

	Alumina av. export unit value A\$/t	Aluminium (high grade) LME cash US\$/t	Gold London AM fix US\$/oz	Iron ore ^a av. export unit value A\$/t	Thermal coal av. export unit value A\$/t	Metallurgical coal av. export unit value A\$/t	Crude oil ^b world trade weighted average US\$/bbl	Uranium ^c Nuexco exch. value US\$/lb
1982-83	186.10	1 142.00	424.45	22.28	46.20	60.28	31.86	20.46
1983-84	180.47	1 482.00	391.75	19.44	42.33	55.88	28.65	20.67
1984-85	197.43	1 095.00	324.93	20.80	43.82	61.20	28.22	15.71
1985-86	186.11	1 074.00	333.37	23.46	47.58	65.04	22.27	16.71
1986-87	189.36	1 249.75	410.27	23.98	45.82	63.31	15.07	16.93
1987-88	238.85	2 241.50	455.37	20.04	39.11	52.45	16.26	16.37
1988-89	267.35	2 346.00	402.80	18.68	41.68	52.54	14.47	11.93
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	1 199.00	343.69	26.91	50.00	65.38	17.74	9.68
1993-94	224.36	1 204.50	378.93	24.28	47.84	61.97	14.45	9.74
1994-95	216.31	1 761.75	384.37	21.53	44.12	55.88	16.83	10.17
1995-96	247.36	1 662.78	389.89	22.70	49.29	61.30	17.44	13.73
1996-97	236.49	1 512.89	363.82	22.94	46.49	61.18	20.30	14.12
1997-98	274.06	1 510.08	306.07	26.66	48.25	68.30	15.03	11.29
1998-99	263.13	1 276.25	285.90	28.44	44.76	64.18	12.31	10.10
1999-00	297.80	1 515.25	281.60	25.29	39.43	53.54	24.05	9.42
2000-01	354.29	1 538.00	269.45	31.16	47.78	62.51	26.82	7.88
2001-02	314.25	1 359.76	289.08	33.05	57.51	75.95	21.59	9.59
2002-03	277.97	1 360.73	334.19	29.44	44.50	69.09	26.26	10.22
2003-04	278.60	1 568.40	389.28	27.09	40.98	58.26	29.33	14.90
2004-05	311.47	1 806.91	422.49	35.54	59.55	86.12	41.34	22.20
2005-06	362.90	2 243.62	526.95	53.62	65.03	141.14	57.25	36.79
	Copper (high grade) LME cash US\$/t	Lead LME cash US\$/t	Zinc (high grade) LME cash US\$/t	Silver ^d London fix US\$/troy oz	Nickel LME cash US\$/t	Ilmenite ^e av. export unit value A\$/t	Rutile ^f av. export unit value A\$/t	Zircon ^g av. export unit value A\$/t
1982-83	1 049.00	280.00	767.00	1 047.58	4 421.50	28.00	255.00	117.00
1983-84	1 031.00	332.00	891.00	981.67	4 762.00	33.00	266.00	118.00
1984-85	1 379.00	337.00	864.00	673.92	5 040.25	31.28	352.66	122.58
1985-86	1 411.00	270.00	679.00	580.67	4 269.00	40.57	451.92	145.26
1986-87	1 393.00	322.00	810.00	604.42	3 843.75	53.33	553.82	194.60
1987-88	2 259.00	655.00	940.00	697.08	10 208.50	63.96	578.13	310.47
1988-89	2 845.00	642.00	1 582.00	609.92	14 730.50	70.27	616.99	535.68
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	8 262.10	133.39	732.15	481.89
2000-01	1 786.51	476.14	1 049.66	466.71	7 239.79	152.06	849.08	607.62
2001-02	1 516.15	473.60	791.40	441.55	5 918.97	150.76	882.09	702.47
2002-03	1 595.11	445.04	774.77	461.00	7 673.15	132.51	767.87	633.61
2003-04	2 267.35	700.06	961.97	579.25	12 263.74	104.56	647.39	585.76
2004-05	3 149.79	964.08	1 170.95	694.94	14 971.10	99.29	717.20	746.27
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 512.99	105.92	816.59	908.40

^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

	Exports ^a						Imports ^c
	Coal, coke and briquettes \$m	Other mineral fuels \$m	Metalliferous ores and other minerals ^b \$m	Gold \$m	Other metals \$m	Total \$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	14 245
2001-02	13 430	10 940	15 286	6 646	10 991	57 293	13 548
2002-03	11 987	11 049	15 312	7 648	10 941	56 937	16 082
2003-04	11 001	8 766	15 419	7 031	11 322	53 539	15 386
2004-05	17 236	11 151	20 504	6 472	13 094	68 457	20 872
2005-06	24 414	13 148	29 130	9 116	14 725	90 533	29 943

^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 Annual Review*, AGPS, Canberra; ABARE.

38 Volume of Australian exports of mineral commodities

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Alumina	kt	11 059	11 654	12 721	13 091	13 168	13 572	14 073	14 499
Aluminium (ingot metal)	kt	1 365	1 364	1 471	1 490	1 551	1 546	1 512	1 615
Coal, black									
Metallurgical	Mt	85	97	106	106	108	112	125	120
Thermal	Mt	84	79	88	92	100	107	106	111
Copper s	kt	529	582	694	749	687	652	701	791
Diamonds s	'000 ct	51 244	51 095	25 513	25 811	32 274	24 326	32 515	27 751
Gold, refined	t	421	330	302	280	282	315	309	315
Iron and steel									
Iron ore and pellets	Mt	135	149	157	156	181	195	228	239
Iron and steel	kt	3 332	2 941	2 931	3 297	3 589	3 818	2 338	2 428
Ferroalloys	kt	153	48	40	45	9	8	0	2
Lead s	kt	620	727	672	731	735	688	782	756
Magnesia	t	122 777	174 854	161 236	151 760	143 372	154 620	162 763	157 342
Manganese ore and concentrate s	kt	1 125	1 301	1 522	1 660	2 014	2 603	3 128	3 215
Petroleum									
Crude oil and other refinery feedstock	ML	14 291	20 877	24 044	23 936	20 950	17 526	15 731	13 078
LNG s	Mt	8	8	8	8	8	8	11	12
LPG	ML	2 486	2 857	2 785	3 211	3 194	2 916	2 844	2 800
Refinery products	ML	4 236	4 116	4 564	3 409	3 140	2 474	1 847	2 082
Salt	kt	8 710	8 389	8 636	8 912	10 172	10 285	12 128	10 776
Silver, refined bullion	t	399	447	450	547	511	415	517	482
Tin s	t	10 002	9 934	9 660	8 026	5 963	143	1 529	1 556
Titanium minerals									
Ilmenite concentrate a	kt	1 216	1 133	1 012	914	1 020	783	633	722
Leucoxene	kt	18	41	70	60	41	125	93	86
Rutile concentrate	kt	188	179	190	190	195	146	158	169
Synthetic rutile s	kt	381	369	443	398	456	470	520	481
Titanium dioxide pigment	kt	133	135	140	145	147	165	175	177
Uranium oxide (U ₃ O ₈)	t	5 989	8 025	9 722	7 367	9 593	9 099	11 249	10 253
Zinc s	kt	1 126	1 120	1 456	1 488	1 548	1 369	1 427	1 337
Zircon concentrate b	kt	364	374	375	388	445	443	428	435

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Bauxite s	135	185	196	136	159	125	123	127
Alumina a	2 910	3 471	4 507	4 114	3 660	3 781	4 383	5 262
Aluminium (ingot metal)	2 840	3 302	4 229	3 965	3 696	3 441	3 726	4 781
Coal, black								
Metallurgical	5 472	5 184	6 597	8 038	7 448	6 510	10 758	17 003
Thermal	3 767	3 114	4 204	5 294	4 448	4 372	6 336	7 206
Copper b	1 366	1 616	2 286	2 159	2 005	2 166	3 082	5 681
Diamonds cs	598	601	634	512	789	531	650	626
Gems, other than diamonds	79	83	99	82	74	64	61	59
Gold, refined	6 317	4 803	4 887	4 950	5 133	5 510	5 523	7 117
Iron and steel								
Iron ore and pellets	3 844	3 779	4 903	5 160	5 342	5 277	8 120	12 832
Iron and steel	1 311	1 265	1 484	1 484	1 855	2 004	2 031	1 674
Lead b	537	607	637	729	657	728	1 041	1 295
Magnesia	46	45	53	56	52	51	54	75
Manganese ore and concentrate s	165	185	261	299	312	371	473	424
Nickel s	845	1 862	2 308	2 032	2 320	3 090	3 685	3 499
Petroleum								
Crude oil and other refinery feedstock	1 881	5 292	8 137	6 390	6 402	5 055	6 330	6 667
LNG	1 425	1 949	2 671	2 613	2 607	2 174	3 199	4 416
LPG	297	648	830	721	855	647	804	1 002
Refinery products	866	1 202	1 844	1 234	1 198	918	844	1 195
Salt	222	221	253	267	233	186	226	229
Silver d	112	129	142	163	136	118	161	197
Tin b	73	70	76	49	38	1	8	12
Titanium minerals								
Ilmenite concentrate e	142	151	154	138	135	82	63	76
Leucoxene concentrate	9	16	21	23	16	33	25	25
Rutile concentrate	148	131	161	167	149	94	114	138
Synthetic rutile s	251	226	313	296	293	253	308	326
Titanium dioxide pigment	387	404	494	460	428	399	422	441
Uranium oxide (U ₃ O ₈)	288	367	497	361	427	364	475	546
Zinc b	1 133	1 233	1 882	1 529	1 427	1 234	1 466	2 542
Zircon concentrate f	187	180	228	272	282	260	319	395
Other mineral resources	1 520	3 173	3 050	3 655	4 410	3 749	3 699	4 736
Total mineral resources g	39 221	45 498	58 006	57 293	56 937	53 539	68 457	90 533

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

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa	96	112	117	113	113	119	164	231
Americas								
United States	1 016	647	661	569	641	485	742	1 931
Other	213	299	407	408	364	388	404	544
Asia								
China	290	525	775	575	739	1 045	1 213	1 497
Chinese Taipei	1 177	1 466	1 539	1 494	1 617	1 897	1 953	2 566
Hong Kong, China	759	1 038	1 191	1 200	801	844	1 021	1 668
India	182	353	469	569	669	816	785	921
Japan	9 171	9 202	9 436	9 307	9 355	9 176	9 077	10 545
Korea, Rep. of	1 898	2 063	2 545	2 952	3 306	4 708	5 241	4 520
Singapore	1 909	1 875	2 549	1 875	2 161	1 815	1 595	1 918
Other	1 382	1 979	1 945	2 130	2 438	2 627	2 610	2 106
Europe								
France	296	381	294	263	262	260	265	294
Germany	430	384	328	336	370	398	406	478
Netherlands	552	442	441	354	368	178	156	279
United Kingdom	825	714	783	1 243	498	791	581	1 097
Other European Union	599	761	805	741	803	894	908	1 173
Other Europe	825	328	268	225	209	478	237	1 000
Oceania								
New Zealand	275	350	445	492	520	700	818	739
Other	350	384	406	382	398	495	549	511
Other	5 225	4 316	4 001	4 160	4 205	5 615	4 868	5 448
Total	27 470	27 618	29 406	29 389	29 838	33 728	33 594	39 465
	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa	180	153	263	364	415	440	409	632
Americas								
United States	1 227	1 798	2 109	1 585	1 435	1 141	1 167	1 019
Other	582	564	676	827	900	592	660	568
Asia								
China	1 626	2 036	2 768	2 990	3 567	4 550	6 789	10 962
Chinese Taipei	2 599	2 956	4 039	3 159	2 653	2 162	3 165	4 063
Hong Kong, China	1 088	996	1 256	1 365	980	746	768	908
India	1 195	949	1 304	1 732	1 976	4 091	5 173	6 478
Japan	10 008	11 337	15 034	14 855	14 355	12 533	16 963	23 537
Korea, Rep. of	4 420	4 647	5 958	6 162	5 743	5 175	6 211	8 282
Singapore	1 693	3 259	4 060	2 802	2 790	1 540	1 629	2 422
Other	1 821	2 287	2 786	2 807	2 637	3 082	5 064	5 811
Europe								
France	380	309	443	521	427	348	479	683
Germany	416	383	421	381	325	297	334	492
Netherlands	347	463	795	766	644	626	913	1 555
United Kingdom	2 456	1 537	1 469	2 009	2 852	1 857	1 780	3 543
Other European Union	1 306	1 172	1 452	1 743	1 402	1 365	1 714	2 696
Other Europe	332	185	155	91	186	124	179	206
Oceania								
New Zealand	719	858	989	1 207	1 102	941	1 528	1 154
Other	407	550	860	525	516	369	469	740
Other	5 560	6 817	8 203	8 261	7 220	8 270	9 479	11 129
Total	38 360	43 253	55 040	54 151	52 125	48 456	62 941	85 164

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Clays	kt	45	66	57	50	61	47	68
Diamonds a	000 ct	2 528	2 598	2 431	3 218	2 229	2 168	4 098
Iron and steel								
Iron ore and pellets b	kt	4 460	4 658	3 880	4 667	5 417	4 648	5 026
Iron and steel	kt	1 128	896	1 354	1 306	1 583	2 116	2 191
Ferroalloys	kt	47	46	46	51	57	60	57
Limestone	kt	705	665	595	582	547	473	430
Magnesium	kt	7	6	6	6	9	7	8
Petroleum								
Crude oil and other refinery feedstock	ML	26 936	26 489	27 308	27 958	23 498	26 054	24 429
LPG	ML	519	633	588	299	785	540	598
Automotive gasoline	ML	1 065	1 189	1 436	1 673	3 242	3 131	3 697
Diesel fuel c	ML	1 400	1 129	1 280	1 627	3 374	3 944	6 122
Other refinery products s	ML	648	902	2 327	5 194	9 762	10 648	14 534
Phosphate rock	kt	756	823	933	711	723	797	655
Platinum and platinum group metals	kg	3 199	2 158	1 652	2 319	2 984	2 391	2 097
Potassium fertiliser	kt	353	346	417	433	447	497	404
Sulphur	kt	263	482	544	595	684	592	550

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.

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

42 Value of Australian imports of mineral commodities

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Clays	17	25	23	14	19	16	17
Diamonds a	210	249	255	302	309	347	403
Gold b	2 390	1 686	2 207	2 957	2 559	2 462	4 800
Iron and steel							
Iron ore and pellets c	107	122	104	114	140	145	222
Iron and steel	1 034	923	1 099	1 226	1 353	2 041	2 075
Ferroalloys	54	58	60	59	71	137	123
Limestone	11	11	10	9	9	7	7
Magnesium	21	15	14	15	21	17	16
Petroleum							
Crude oil and other refinery feedstock	6 313	8 753	7 458	8 610	6 594	9 995	12 839
LPG	108	160	116	76	166	143	194
Automotive gasoline	321	432	448	569	1 168	1 463	2 348
Diesel fuel d	377	438	414	561	1 134	1 933	4 076
Other refinery products s	325	463	953	1 971	3 428	4 979	8 575
Phosphate rock	54	62	72	50	41	49	42
Platinum and platinum group metals	55	30	42	64	86	59	70
Potassium fertiliser	82	91	117	108	94	106	112
Silver	29	16	32	35	70	30	33
Sulphur	21	37	30	45	59	47	45
Total	11 815	13 924	13 855	17 211	17 689	24 269	36 368

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

» **2006**

43 Summary of Australian statistics for coarse grains ^a

	Area '000 ha	Yield t/ha	Production		Exports ^b	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	2 795	1.16	3 244	130	1 114	42
1961-62	2 450	0.97	2 382	105	1 092	46
1962-63	2 396	1.09	2 615	114	600	26
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	98
1971-72	4 492	1.29	5 782	223	3 177	135
1972-73	3 891	0.93	3 620	190	1 663	79
1973-74	3 664	1.27	4 671	347	1 742	136
1974-75	3 285	1.35	4 424	404	2 884	280
1975-76	3 868	1.44	5 575	500	3 148	306
1976-77	3 901	1.29	5 019	464	3 327	332
1977-78	4 318	0.98	4 218	347	1 939	177
1978-79	4 663	1.51	7 063	555	2 850	245
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	1 808	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	3 692	476
1987-88	4 576	1.57	7 162	906	2 506	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	4 438	701
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	1 103
1997-98	5 388	1.88	10 102	1 601	3 398	809
1998-99	5 113	2.10	10 721	1 419	5 255	967
1999-00	4 244	2.22	9 435	1 401	4 574	943
2000-01	5 325	2.05	10 914	1 952	4 987	1 261
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	1 051
2003-04	6 815	2.29	15 630	2 562	5 782	1 373
2004-05	6 755	1.79	12 062	1 849	7 187	1 412
2005-06	6 910	2.08	14 360	2 721	5 683	1 193

^a Barley, oats, sorghum and maize. Includes triticale from 1979-80. ^b Including grains and the grain equivalent of malt exported.
Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; ABS, *Crops and Pastures, Australia*, cat. no. 7321.0, Canberra; ABS, *Summary of Crops, Australia*, cat. no. 7330.0, Canberra; ABS, *Value of Agricultural Commodities produced, Australia*, cat. no. 7503.0, Canberra; ABARE.

coarse grains

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								
1999-00	'000 ha	476	585	130	550	845	9	2 596
2000-01	'000 ha	615	693	112	983	1 041	10	3 454
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	1 313	1 280	8	4 645
2005-06	'000 ha	1 015	937	156	1 303	1 317	11	4 739
Yield								
1999-00	t/ha	2.18	2.03	1.95	2.03	1.67	2.44	1.94
2000-01	t/ha	2.04	2.41	1.03	1.38	2.23	2.60	1.95
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	1.51	1.94	3.50	1.67
2005-06	t/ha	2.21	2.20	1.66	1.99	2.04	2.09	2.08
Production								
1999-00	kt	1 040	1 189	254	1 117	1 409	22	5 032
2000-01	kt	1 253	1 670	115	1 358	2 320	26	6 743
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	2 245	2 059	259	2 598	2 685	23	9 869
Oats								
Area								
1999-00	'000 ha	160	138	10	199	70	6	584
2000-01	'000 ha	168	140	13	248	75	7	650
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	348	155	9	255	85	7	859
Yield								
1999-00	t/ha	1.78	2.14	1.20	2.21	1.11	1.67	1.91
2000-01	t/ha	1.46	2.51	0.46	1.28	1.56	1.86	1.62
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	1.41	1.68	0.44	2.04	1.52	1.43	1.65
Production								
1999-00	kt	284	296	12	439	78	10	1 118
2000-01	kt	246	351	6	317	117	13	1 050
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	492	260	4	521	129	10	1 416

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								
1999-00	'000 ha	200	1	419	2	0	0	622
2000-01	'000 ha	258	2	494	2	0	0	758
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	300	2	585	2	0	0	889
Yield								
1999-00	t/ha	4.02	3.00	3.12	0.75	0.00	0.00	3.40
2000-01	t/ha	2.98	2.00	2.34	2.00	0.00	0.00	2.55
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	2.80	2.25	2.00	2.00	0.00	0.00	2.27
Production								
1999-00	kt	804	2	1 308	2	0	0	2 116
2000-01	kt	770	4	1 156	4	0	0	1 935
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	840	5	1 170	4	0	0	2 019
Maize								
Area								
1999-00	'000 ha	22	1	59	0	0	0	82
2000-01	'000 ha	26	1	47	0	0	0	74
2001-02	'000 ha	28	1	53	0	0	0	83
2002-03	'000 ha	21	1	28	0	0	0	50
2003-04	'000 ha	22	1	48	0	0	0	70
2004-05	'000 ha	25	1	46	0	0	0	72
2005-06	'000 ha	26	1	47	2	0	0	76
Yield								
1999-00	t/ha	8.07	7.00	3.82	0.00	0.00	0.00	4.95
2000-01	t/ha	6.85	8.00	3.38	0.00	0.00	0.00	4.66
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	5.03
Production								
1999-00	kt	178	4	224	0	0	0	406
2000-01	kt	178	8	159	0	0	0	345
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	1	0	0	418
2005-06	kt	184	7	183	6	0	0	380

Continued

coarse grains

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
<i>Triticale</i>								
Area								
1999-00	'000 ha	129	114	1	25	88	2	361
2000-01	'000 ha	126	127	1	28	105	2	389
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	120	1	42	93	2	389
2005-06	'000 ha	113	112	1	26	92	2	347
Yield								
1999-00	t/ha	2.89	2.06	5.00	1.40	1.24	3.00	2.12
2000-01	t/ha	2.61	2.49	1.00	1.07	1.50	4.00	2.16
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	1.67	1.40	1.12	0.78	3.00	1.57
2005-06	t/ha	2.53	1.96	1.60	1.25	1.39	4.11	1.95
Production								
1999-00	kt	373	235	5	35	109	6	764
2000-01	kt	329	316	1	30	157	8	841
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	286	219	2	33	128	8	676
<i>Total coarse grains</i>								
Area								
1999-00	'000 ha	987	838	619	776	1 003	17	4 244
2000-01	'000 ha	1 193	963	667	1 261	1 221	19	5 325
2001-02	'000 ha	1 320	975	723	1 404	1 368	15	5 806
2002-03	'000 ha	1 349	1 103	551	1 483	1 391	16	5 900
2003-04	'000 ha	1 769	1 210	730	1 665	1 427	15	6 815
2004-05	'000 ha	1 785	1 195	709	1 598	1 449	14	6 755
2005-06	'000 ha	1 802	1 207	798	1 588	1 494	20	6 910
Yield								
1999-00	t/ha	2.71	2.06	2.91	2.05	1.59	2.23	2.22
2000-01	t/ha	2.33	2.44	2.15	1.36	2.12	2.47	2.05
2001-02	t/ha	2.31	2.36	2.24	2.04	2.31	3.20	2.25
2002-03	t/ha	1.03	0.77	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	1.50	2.15	1.56	1.83	3.07	1.79
2005-06	t/ha	2.25	2.11	2.03	1.99	1.97	2.07	2.08
Production								
1999-00	kt	2 679	1 725	1 803	1 593	1 596	38	9 435
2000-01	kt	2 776	2 349	1 437	1 709	2 594	47	10 914
2001-02	kt	3 049	2 300	1 623	2 860	3 164	48	13 049
2002-03	kt	1 392	848	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	2 487	2 652	43	12 062
2005-06	kt	4 047	2 549	1 618	3 162	2 942	41	14 360

^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

	Area '000 ha	Yield t/ha	Production		Exports ^a	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	1 145	1.35	1 542	62	769	29
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	4 020	631
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	4 142	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	954
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	1 274
2005-06	4 739	2.08	9 869	1 905	5 315	1 108

^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

	Area	Yield	Production		Exports	
	'000 ha	t/ha	Volume kt	Value \$m	Volume kt	Value \$m
1960-61	1 472	0.94	1 381	51	345	14
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	231	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	650	1.62	1 050	138	97	22
2001-02	784	1.83	1 434	251	130	37
2002-03	911	1.05	957	210	177	66
2003-04	1 089	1.85	2 018	279	172	66
2004-05	894	1.43	1 282	172	165	36
2005-06	859	1.65	1 416	244	190	47

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

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	103	1.58	163	6	0	0
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	445	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	265	46
1999-00	622	3.40	2 116	260	539	81
2000-01	758	2.55	1 935	279	691	122
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	889	2.27	2 019	360	173	33

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

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	75	2.12	159	11	0	0
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	22	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	5.03	380	88	5	6

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

	Area	Yield	Production		Exports	
	'000 ha	t/ha	Volume	Value	Volume	Value
			kt	\$m	kt	\$m
1979-80	22	1.30	29	3	0	0
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	125	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 produced, Australia*, cat. no. 7503.0, Canberra; ABARE.

coarse grains

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt	kt
Sorghum								
Asia								
Chinese Taipei	7	7	5	8	2	9	40	26
Japan	231	469	602	491	1	221	386	86
Papua New Guinea	9	0	13	38	45	21	28	19
United Arab Emirates	0	1	1	1	2	1	2	1
Other	18	63	70	48	20	37	58	41
Total	265	539	691	586	70	289	513	173
(value, \$m)	46	81	122	109	17	61	96	33
Oats								
Asia								
Japan	11	11	19	9	8	8	8	6
Korea, Rep. of	2	4	3	1	1	1	2	2
Philippines	5	5	5	5	5	6	7	7
Libya	0	0	0	3	0	0	0	0
Malta	0	1	1	0	0	0	0	0
Middle East								
United Arab Emirates	1	3	2	2	2	4	2	2
Other ^a	237	137	68	111	161	153	147	174
Total	257	160	97	130	177	172	165	190
(value, \$m)	38	27	22	37	66	66	36	47

^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 '000 ha	Production kt	Exports b kt	Estimated domestic disposals	
				Feed and food kt	Seed c kt
Barley d					
2000-01	3 454	6 743	4 567	2 158	167
2001-02	3 707	8 280	5 274	2 361	174
2002-03	3 864	3 865	2 608	1 815	201
2003-04	4 477	10 382	6 996	2 268	208
2004-05	4 645	7 740	4 862	2 472	213
2005-06	4 739	9 869	5 713	2 626	180
Oats					
2000-01	650	1 050	86	927	38
2001-02	784	1 434	190	1 200	44
2002-03	911	957	121	784	52
2003-04	1 089	2 018	210	1 766	43
2004-05	894	1 282	138	1 103	41
2005-06	859	1 416	195	1 199	38
Sorghum					
2000-01	758	1 935	501	1 429	4
2001-02	823	2 021	375	1 643	3
2002-03	667	1 465	64	1 397	4
2003-04	734	2 009	623	1 382	4
2004-05	755	2 011	259	1 748	4
2005-06	889	2 019	246	1 717	4
Maize					
2000-01	74	345	45	298	1
2001-02	83	454	63	440	1
2002-03	50	310	16	293	1
2003-04	70	395	10	384	1
2004-05	72	418	5	412	1
2005-06	76	380	8	373	1
Triticale					
2000-01	389	841	0	821	20
2001-02	409	860	0	840	20
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
Total					
2000-01	5 325	10 914	5 201	5 633	230
2001-02	5 806	13 049	5 903	6 483	242
2002-03	5 900	6 924	2 810	4 593	281
2003-04	6 815	15 630	7 844	6 607	275
2004-05	6 755	12 062	5 264	6 329	277
2005-06	6 910	14 360	6 123	6 574	240

^a Crop years are November–October for barley, oats and triticale, and March–February for sorghum and maize. ^b Exports may include carryover from earlier harvests. ^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; ABARE.

coarse grains

52 Australian feedgrains prices

	Barley ^a \$/t	Oats ^b \$/t	Sorghum ^c \$/t	Maize ^c \$/t	Feed wheat ^c \$/t	Triticale ^c \$/t
1979-80	97.06	78.48	103.28	111.39	140.50	na
1980-81	139.41	141.44	135.33	171.77	151.37	na
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	171.00	155.60
1990-91	123.58	107.79	136.79	167.53	135.83	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	234.72	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	211.87	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	221.51	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
2005						
January	169.33	160.00	165.00	213.33	175.00	180.00
February	165.50	168.00	148.00	205.00	173.25	177.50
March	170.00	176.20	150.60	204.00	178.80	180.00
April	175.50	185.00	161.25	217.50	183.00	184.50
May	208.50	221.25	179.75	231.25	212.50	202.50
June	228.00	246.00	191.60	246.00	223.00	225.00
July	209.00	248.75	173.50	232.50	208.25	215.00
August	201.40	212.00	165.20	212.00	199.20	204.20
September	196.75	200.00	162.75	220.00	189.50	199.50
October	186.75	191.25	162.50	217.50	194.50	192.75
November	167.00	163.00	161.00	204.00	183.60	176.00
December	157.00	143.00	156.00	198.00	169.33	168.00
2006						
January	166.00	145.00	163.00	200.00	176.00	168.00
February	175.00	163.00	173.00	206.00	184.25	175.00
March	172.00	168.00	178.00	195.00	190.00	180.00
April	176.00	169.00	183.00	213.00	193.00	185.00
May	181.00	171.00	183.00	221.00	198.20	193.00
June	195.00	195.00	196.00	233.00	220.00	205.00
July	193.00	196.00	195.00	230.00	218.00	204.00
August	192.00	199.00	195.00	222.00	219.00	201.00

^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 million ha	Production Mt	Use Mt	Closing stocks ^a		Stocks to use ratio %	Trade ^b Mt	Use per person kg	Price ^c US\$/t
				World Mt	United States Mt				
1960-61	316	439.3	430.6	109.8	77	25	24	143	na
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	106	144	86.6
2001-02	301	893.8	904.3	195.6	45	22	104	146	90.1
2002-03	293	875.7	901.1	167.1	31	19	104	144	107.3
2003-04	307	916.1	943.4	135.4	29	14	104	149	115.0
2004-05	300	1 014.0	975.2	171.5	59	18	102	152	97.5
2005-06	301	974.4	984.4	162.3	55	16	104	151	103.9

^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. **na** Not available.

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

54 World coarse grains production, by region and country

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Egypt	6.5	6.6	6.6	7.1	7.1	6.8	6.9	6.9
Nigeria	18.2	18.6	17.9	18.8	19.1	20.3	22.3	23.7
South Africa	8.4	11.9	8.4	10.5	10.1	10.4	12.2	7.4
Americas								
Argentina	17.8	21.7	19.6	18.7	19.4	18.6	24.9	17.9
Brazil	33.5	33.0	43.1	36.8	47.1	44.9	37.8	43.7
Canada	26.6	26.8	24.0	22.6	19.9	26.3	26.4	26.1
Mexico	24.7	26.2	24.4	27.2	26.5	30.1	28.9	25.8
United States	271.5	263.0	273.1	261.7	243.7	275.1	319.4	298.7
Asia								
China	143.5	137.2	114.0	122.2	130.7	124.6	138.3	147.7
India	31.7	30.5	31.6	34.7	25.7	37.8	33.6	34.4
Thailand	4.5	4.1	4.8	4.6	4.4	4.2	4.4	4.3
Turkey	10.5	9.2	10.2	9.5	10.0	10.0	11.0	11.9
Europe								
European Union ^a	105.1	133.5	132.7	140.3	138.7	123.0	150.7	131.5
France	27.8	27.4	28.0	28.7	30.1	24.2	30.3	26.5
Germany	24.4	24.9	23.7	27.1	22.7	20.1	25.3	22.6
Italy	11.0	11.7	12.1	12.0	12.4	9.8	12.6	11.7
Spain	16.2	11.0	14.8	11.5	13.4	13.6	16.1	8.9
Former Yugoslavia	9.7	9.7	8.0	10.1	10.5	7.6	11.3	12.3
Romania	9.6	11.9	5.8	8.5	8.4	8.0	13.8	11.8
Russian Federation	19.0	21.8	28.2	35.2	33.4	30.5	29.6	27.6
Ukraine	9.2	9.0	13.0	17.0	17.1	15.6	23.0	18.1
Oceania								
Australia	10.7	9.4	10.9	13.0	6.9	15.6	12.1	14.4
Other	130.0	93.4	86.0	95.3	97.1	106.7	107.5	110.2
Total ^b	890.5	877.6	862.3	893.8	875.7	916.1	1 014.0	974.4

^a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. ^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*.

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World coarse grains production, by grain

	Corn Mt	Barley Mt	Sorghum Mt	Oats Mt	Total ^a 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	590.5	132.9	53.8	26.0	862.3
2001-02	599.9	142.3	58.3	27.0	893.8
2002-03	602.9	134.8	52.7	25.6	875.7
2003-04	625.2	142.9	58.9	26.6	916.1
2004-05	712.3	154.2	57.7	25.9	1 014.0
2005-06	692.7	138.1	58.9	23.5	974.4

^a Includes rye, millet and mixed grain.

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

coarse grains

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	1.9	1.8	1.9	2.0	1.7	1.9	2.0	2.1
Egypt	3.7	4.6	5.3	5.0	4.9	3.8	5.4	4.3
Americas								
Brazil	1.3	2.0	0.6	0.6	1.1	0.5	0.7	0.7
Colombia	1.7	2.1	2.0	2.1	2.4	2.2	2.5	3.2
Mexico	9.1	10.0	11.2	9.0	8.8	8.9	9.0	10.0
Asia								
China	2.6	2.3	2.4	2.0	1.8	1.5	2.1	2.2
Chinese Taipei	4.8	5.2	5.2	4.9	4.8	5.1	4.8	5.0
Japan	20.9	20.4	20.2	19.9	20.3	20.0	19.7	19.8
Korea, Rep. of	7.8	9.3	8.9	8.8	8.9	9.0	8.7	8.9
Malaysia	2.4	2.3	2.6	2.4	2.4	2.4	2.4	2.5
Europe								
European Union ^a	3.1	4.8	5.4	5.9	6.4	7.8	3.7	3.4
Russian Federation	1.2	2.2	0.8	0.7	0.4	1.0	0.7	0.5
Middle East								
Iran	1.6	2.0	2.2	1.9	2.2	2.1	3.7	3.4
Saudi Arabia	7.1	6.3	6.9	7.1	8.5	8.4	6.9	7.6
Turkey	1.0	1.5	0.7	1.3	1.5	1.3	0.4	0.1
Total ^b	93.7	101.6	103.5	101.5	103.1	100.8	101.2	102.1
Exports								
Africa								
South Africa	0.6	1.5	1.3	1.1	1.1	0.8	2.2	0.8
Asia								
China	3.4	10.0	7.3	8.6	15.3	7.7	7.6	3.8
Americas								
Argentina	8.6	12.9	10.3	11.4	11.9	11.3	15.2	9.0
Brazil	0.0	0.2	6.3	2.1	4.7	4.8	0.7	3.0
Canada	3.3	3.6	3.7	2.5	1.7	3.6	2.8	4.1
United States	56.0	56.3	56.6	55.1	45.7	53.8	51.4	60.2
Europe								
European Union ^a	9.2	15.2	10.7	8.0	8.6	4.4	4.0	3.9
Oceania								
Australia	5.5	4.2	5.2	5.9	2.8	7.8	5.3	6.2
Total ^b	93.8	107.2	105.9	104.2	104.2	103.6	101.6	103.9

^a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. ^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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canada	0.9	1.0	2.7	4.0	3.9	2.0	2.4	1.8
China	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Chinese Taipei	4.6	5.0	4.9	4.7	4.7	5.0	4.5	4.8
Colombia	1.6	2.0	1.9	1.9	2.1	2.0	2.3	3.0
European Union ^b	2.7	3.0	3.8	3.8	4.3	5.5	3.0	3.0
Indonesia	0.5	1.2	1.3	1.1	1.6	1.4	0.5	1.3
Japan	16.3	16.1	16.3	16.4	16.9	16.8	16.5	16.7
Korea, Rep. of	7.5	8.7	8.7	8.6	8.8	8.8	8.6	8.8
Malaysia	2.4	2.3	2.6	2.4	2.4	2.4	2.4	2.5
Mexico	5.6	4.9	5.9	4.1	5.3	5.7	5.9	6.7
Saudi Arabia	1.3	1.5	1.4	1.3	1.4	1.6	1.2	1.4
Total ^c	66.5	71.7	75.4	74.3	77.4	76.5	77.1	77.7
Exports								
Argentina	7.9	11.9	9.7	10.9	11.2	10.9	14.6	8.5
Brazil	0.0	0.2	6.3	2.1	4.6	4.4	0.7	3.0
China	3.3	9.9	7.3	8.6	15.2	7.6	7.6	3.8
South Africa	0.5	1.4	1.3	1.1	1.1	0.7	2.1	0.8
United States	50.4	49.2	49.3	48.4	40.3	48.3	46.2	54.6
Other	4.8	4.2	3.4	5.3	5.8	5.5	7.0	6.5
Total	66.9	76.9	77.2	76.3	78.3	77.5	78.2	77.2

^a Marketing years of individual countries. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. 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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
China	2.0	2.2	2.3	1.9	1.8	1.5	2.0	2.1
European Union ^a	0.1	1.1	1.1	1.6	1.5	0.6	0.5	0.3
Japan	1.7	1.6	1.5	1.4	1.4	1.4	1.5	1.4
Russian Federation	0.3	0.8	0.4	0.2	0.3	0.4	0.3	0.3
Saudi Arabia	5.9	4.8	5.5	5.8	7.1	6.8	5.7	6.2
Total ^b	16.9	17.3	17.2	16.9	17.2	15.1	16.2	16.6
Exports								
Australia	4.8	3.3	4.6	5.3	2.6	7.0	4.9	5.7
Canada	1.1	1.7	2.0	1.1	0.4	1.8	1.2	2.3
European Union ^a	7.4	10.4	7.7	3.8	5.0	2.8	2.9	3.2
United States	0.6	0.6	1.3	0.6	0.7	0.4	0.5	0.6
Total ^b	16.8	17.3	17.5	17.6	16.7	16.5	15.3	18.7

^a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. 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.

coarse grains

59 Volume of world sorghum trade, by country

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Chinese Taipei	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
European Union a	0.3	0.3	0.0	0.0	0.0	1.6	0.2	0.1
Israel	0.1	0.2	0.1	0.0	0.1	0.1	0.0	0.1
Japan	2.5	2.2	2.0	1.8	1.6	1.4	1.4	1.4
Mexico	3.3	4.9	5.0	4.8	3.4	3.0	2.9	3.2
Total b	6.7	8.2	7.6	7.0	5.5	6.5	5.3	5.3
Exports								
Argentina	0.6	0.9	0.4	0.4	0.6	0.2	0.4	0.2
Australia	0.5	0.9	0.6	0.4	0.1	0.6	0.2	0.3
United States	5.0	6.5	6.0	6.1	4.7	5.0	4.7	5.0
Total b	6.3	8.5	7.3	7.1	5.7	6.5	5.4	5.6

a Regarded as fifteen countries to 1998-99 then twenty five countries from 1999-00. 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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Area	million ha	36.2	35.0	35.6	33.9	33.5	34.8	34.9	34.9
Yield	t/ha	7.5	7.5	7.7	7.7	7.3	7.9	9.2	8.6
Production	Mt	271.5	263.0	273.1	261.7	243.7	275.1	319.4	298.7
Opening stocks	Mt	38.2	51.4	48.9	52.7	45.0	30.9	28.8	58.8
Imports	Mt	3.1	2.8	2.7	2.6	2.6	2.4	2.2	2.1
Availability	Mt	312.7	317.1	324.7	317.0	291.3	308.5	350.4	359.6
Domestic use	Mt	205.3	211.9	215.4	216.8	214.7	225.9	240.3	244.6
– feed	Mt	152.4	157.2	160.1	159.6	150.0	155.8	165.9	163.0
– food, seed	Mt	52.9	54.7	55.3	57.2	64.7	70.1	74.4	81.6
Exports	Mt	56.0	56.3	56.6	55.1	45.7	53.8	51.4	60.2
Closing stocks	Mt	51.3	48.9	52.6	45.1	30.9	28.8	58.8	54.8
– CCC a	Mt	0.3	0.4	0.2	0.2	0.1	0.0	0.0	0.0
– free	Mt	51.0	48.5	52.4	44.9	30.8	28.8	58.8	54.8

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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Area									
– planted	million ha	32.5	31.3	32.2	30.7	31.9	31.8	32.7	33.1
– harvested	million ha	29.4	28.5	29.3	27.8	28.1	28.7	29.8	30.4
Yield	t/ha	8.44	8.40	8.60	8.68	8.11	8.93	10.06	9.28
Production	Mt	247.9	239.5	251.9	241.4	227.8	256.3	299.9	282.2
Opening stocks	Mt	33.2	45.4	43.6	48.2	40.6	27.6	24.3	53.7
Imports	Mt	0.5	0.4	0.2	0.3	0.4	0.4	0.3	0.3
Availability	Mt	281.6	285.3	295.7	289.9	268.7	284.2	324.5	336.2
Domestic use	Mt	185.8	192.5	198.1	201.0	200.7	211.6	224.7	231.6
– feed	Mt	138.9	143.9	148.4	149.0	141.3	147.2	156.5	156.0
– food, seed	Mt	46.9	48.6	49.7	52.0	59.4	64.4	68.2	75.6
Exports	Mt	50.4	49.2	49.3	48.4	40.3	48.3	46.2	54.6
Closing stocks	Mt	45.4	43.6	48.2	40.6	27.6	24.3	53.7	50.1
– CCC ^b	Mt	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0
– free	Mt	45.1	43.3	48.0	40.4	27.5	24.3	53.7	50.1
Farm price	US\$/bus	1.94	1.82	1.85	1.97	2.32	2.42	2.06	1.90
Loan rate	US\$/bus	1.89	1.89	1.89	1.89	1.98	1.98	1.95	na
Export price ^c	US\$/t	94.5	89.9	86.6	90.1	107.3	115.0	97.5	103.9

^a September–August crop years. ^b Commodity Credit Corporation. ^c US no. 2 yellow corn fob Gulf. **na** Not available.

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.

coarse grains

62 US sorghum and barley supply and disposal

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Sorghum ^a									
Area harvested	million ha	3.1	3.5	3.1	3.5	2.9	3.2	2.6	2.3
Yield	t/ha	4.2	4.4	3.8	3.8	3.2	3.3	4.4	4.3
Production	Mt	13.2	15.1	12.0	13.1	9.2	10.4	11.5	10.0
Opening stocks	Mt	1.2	1.7	1.7	1.1	1.5	1.1	0.9	1.4
Availability	Mt	14.4	16.8	13.6	14.1	10.7	11.5	12.4	11.5
Domestic use	Mt	7.8	8.6	6.5	6.4	4.9	5.6	6.3	4.8
Exports	Mt	5.0	6.5	6.0	6.1	4.7	5.0	4.7	5.0
Closing stocks	Mt	1.7	1.7	1.1	1.5	1.1	0.9	1.4	1.7
Farm price	US\$/bus	1.7	1.6	1.9	1.9	2.3	2.4	1.8	1.9
Loan rate	US\$/bus	1.7	1.7	1.7	1.7	2.0	2.0	2.0	na
Export price ^b	US\$/t	94.5	88.6	95.6	99.9	120.7	127.9	108.8	119.8
Barley ^c									
Area harvested	million ha	2.4	1.9	2.1	1.7	1.7	1.9	1.6	1.3
Yield	t/ha	3.2	3.1	3.3	3.1	3.0	3.2	3.7	3.5
Production	Mt	7.7	5.9	6.9	5.4	4.9	6.1	6.1	4.6
Opening stocks	Mt	2.6	3.1	2.4	2.3	2.0	1.5	2.6	2.8
Imports	Mt	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.1
Availability	Mt	10.9	9.6	10.0	8.2	7.3	8.0	9.0	7.5
Domestic use	Mt	7.2	6.6	6.4	5.7	5.2	5.0	5.7	4.6
Exports	Mt	0.6	0.6	1.3	0.6	0.7	0.4	0.5	0.6
Closing stocks	Mt	3.1	2.4	2.3	2.0	1.5	2.6	2.8	2.4
Farm price	US\$/bus	2.0	2.1	2.1	2.2	2.7	2.8	2.5	2.5
Loan rate	US\$/bus	1.6	1.6	1.6	1.7	1.9	1.9	1.9	na
Export price ^d	US\$/t	95.9	105.3	110.6	111.6	128.5	132.3	114.8	123.0

^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). **na** Not available.

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 quotations, by category

	US no. 2 hard red winter wheat (Gulf) ^a US\$/t	US no. 2 yellow corn (Gulf) ^a US\$/t	US no. 2 sorghum (Gulf) ^a US\$/t	US no. 2 barley (Portland) ^b US\$/t
1980-81	183.0	142.0	141.0	149.0
1981-82	170.0	118.0	114.0	131.0
1982-83	160.0	115.0	114.0	116.0
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
2005				
January	157.0	96.2	107.2	115.3
February	154.0	94.5	107.4	118.1
March	158.0	100.0	111.0	120.7
April	148.0	96.5	107.2	118.3
May	149.0	95.5	108.2	119.4
June	150.0	97.9	108.4	116.2
July	149.0	105.8	112.7	121.2
August	158.0	99.5	110.1	126.1
September	169.0	97.2	113.3	122.5
October	174.0	101.7	120.2	121.0
November	166.0	96.2	113.8	123.0
December	168.1	102.8	118.2	121.7
2006				
January	170.6	102.8	120.8	117.6
February	184.6	107.2	125.9	120.3
March	182.4	105.1	119.5	125.8
April	185.6	108.1	125.2	126.0
May	202.8	110.9	128.5	123.4
June	205.0	109.8	129.0	127.9
July	211.0	114.5	136.3	130.1
August	201.0	115.5	131.3	131.6

^a Export price, fob Gulf ports. ^b Export price, fob Portland.

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 million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports Mt	Closing stocks Mt
United States (September–August)						
1999-00	35.0	7.51	263.0	211.9	56.3	48.9
2000-01	35.6	7.67	273.1	215.4	56.6	52.6
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	298.7	244.6	60.2	54.8
Canada (August–July) ^a						
1999-00	6.9	3.87	26.8	23.5	3.6	5.7
2000-01	7.2	3.35	24.0	24.5	3.7	4.3
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	7.5	3.49	26.3	23.8	3.6	4.1
2004-05	6.7	3.94	26.4	23.8	2.8	6.3
2005-06	6.6	3.95	26.1	23.8	4.1	6.3
Argentina (March–February)						
1999-00	4.5	4.86	21.7	9.1	12.9	1.3
2000-01	4.1	4.82	19.6	9.4	10.3	1.2
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	3.4	5.26	17.9	9.1	9.0	1.4
Australia (November–October)						
1999-00	4.2	2.22	9.4	5.6	4.2	0.7
2000-01	5.3	2.05	10.9	5.9	5.2	1.3
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	2.2
2004-05	6.8	1.79	12.1	6.6	5.3	2.6
2005-06	6.9	2.08	14.4	6.8	6.2	3.6
European Union (July–June) ^b						
1999-00	29.1	4.60	133.5	126.7	15.2	21.1
2000-01	29.0	4.57	132.7	131.0	10.7	17.6
2001-02	29.5	4.76	140.3	134.4	8.0	21.2
2002-03	29.2	4.75	138.7	136.1	8.6	21.5
2003-04	29.0	4.25	123.0	135.5	4.4	12.6
2004-05	29.1	5.18	150.7	138.8	4.0	24.2
2005-06	28.3	4.65	131.5	132.4	3.9	22.8
World						
1999-00	299.7	2.93	877.6	876.8	107.2	231.8
2000-01	296.7	2.90	862.3	882.1	105.9	209.3
2001-02	301.4	2.96	893.8	904.3	104.2	195.6
2002-03	293.3	2.98	875.7	901.5	104.2	167.1
2003-04	307.1	2.98	916.1	943.5	103.6	135.4
2004-05	300.2	3.37	1 014.0	975.0	101.6	171.5
2005-06	301.0	3.23	974.4	984.4	103.9	162.3

^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
1960-61	na	na	15.0	na	na	0.173
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

^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.

	Cottonseed production			Lint production		
	New South Wales	Queensland	Australia b	New South Wales	Queensland	Australia b
	kt	kt	kt	kt	kt	kt
1960-61	na	na	4.5	na	na	2.6
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

^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 kt	Gross value of production b \$m	Imports		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	2.6	na	na	na	na	na
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	13.6	9.1	4.7	na	na
1967-68	29.0	19.7	12.3	6.9	na	na
1968-69	30.4	20.7	5.7	3.8	3.7	1.9
1969-70	24.7	18.6	4.7	3.0	11.5	5.1
1970-71	15.9	14.0	7.0	4.3	7.4	3.4
1971-72	39.8	29.8	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	32.6	8.4	9.3	3.2	1.8
1974-75	32.9	26.6	4.0	4.8	7.7	5.4
1975-76	24.9	29.3	4.1	4.4	16.0	11.5
1976-77	28.0	37.5	5.0	7.4	5.5	7.1
1977-78	44.2	52.2	4.0	5.6	9.8	10.9
1978-79	53.1	76.0	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	147.0	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	168.0	0.7	1.3	129.0	198.0
1983-84	141.3	269.0	1.1	2.4	82.0	148.0
1984-85	248.7	330.0	2.7	6.0	140.0	262.0
1985-86	267.3	295.0	0.5	1.4	241.0	380.0
1986-87	221.6	372.5	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	287.3	462.8
1989-90	305.3	658.0	0.1	0.3	306.0	579.8
1990-91	447.0	981.0	0.7	2.2	339.7	737.7
1991-92	554.5	972.0	0.7	1.8	458.1	945.0
1992-93	409.3	770.0	0.3	1.3	396.0	755.5
1993-94	367.5	739.0	0.3	1.4	360.5	732.0
1994-95	375.0	910.0	0.2	1.2	296.8	678.7
1995-96	421.2	1 001.0	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	1 617.0	0.4	1.4	703.0	1 406.6
2000-01	819.0	1 882.0	0.4	1.6	834.3	1 958.3
2001-02	703.3	1 499.0	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	671.0	0.1	0.5	459.0	982.2
2004-05	645.1	1 222.0	0.3	0.7	409.8	770.3
2005-06	597.1	1 104.8	0.0	0.0	650.1	1 137.1

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.

Volume of Australian exports of raw cotton, by destination

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Asia	594.1	657.7	778.6	674.8	559.9	444.6	395.8	642.6
China	18.2	5.4	11.4	13.1	29.6	79.9	61.8	284.6
Chinese Taipei	30.0	26.7	31.6	21.5	13.6	2.7	3.9	8.7
India	14.3	41.8	66.1	55.0	6.8	2.2	3.5	1.3
Indonesia	209.3	182.9	220.3	193.9	184.2	147.0	130.0	141.4
Japan	135.4	138.9	139.6	120.9	94.0	52.2	45.2	34.9
Korea, Rep. of	50.1	53.0	75.3	94.0	96.3	56.4	63.6	53.7
Pakistan	18.6	48.8	39.6	29.1	14.9	33.2	13.3	8.2
Philippines	7.2	12.2	11.6	5.1	3.3	0.7	0.2	1.3
Thailand	79.4	95.0	114.5	90.1	86.9	58.6	64.8	93.1
Other	31.6	53.0	68.8	52.1	30.2	11.7	9.7	15.4
Europe	45.0	41.1	49.3	41.3	31.5	11.9	10.2	6.9
Germany	0.6	0.8	0.0	0.0	0.2	0.2	0.1	0.0
Italy	27.4	22.4	29.2	24.3	17.3	6.6	8.1	6.6
Spain	9.0	3.0	2.6	2.9	2.9	2.9	2.0	0.0
Other	7.9	14.9	17.5	14.1	11.0	2.2	0.1	0.3
United States	0.2	0.1	0.4	0.0	1.2	0.5	0.3	0.0
Other countries	7.6	4.2	6.5	2.4	4.8	2.5	3.9	0.6
Total	646.7	703.0	834.3	718.5	596.2	459.0	409.8	650.1

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
1960-61	na	57.0	na
1961-62	na	59.0	na
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	161.1
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	227.5	241.1
1999-00	52.5	199.2	200.1
2000-01	57.2	256.1	234.7
2001-02	41.8	193.8	215.4
2002-03	55.4	221.6	193.4
2003-04	68.3	225.0	214.0
2004-05	52.4	166.9	188.0
2005-06	56.0	179.1	174.9

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

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

70 Summary of world statistics for raw cotton ^a

	Opening stocks kt	Production kt	Total supply kt	Consumption kt	Imports ^b kt	Price ^c USc/lb
1960-61	4 259	9 812	17 841	10 000	3 770	na
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	12 399	22 443	11 663	3 730	na
1966-67	7 087	11 378	22 386	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	12 100	22 334	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	13 800	24 357	14 150	5 934	94.2
1981-82	4 488	14 988	25 071	13 836	5 595	73.8
1982-83	5 626	14 442	25 744	14 647	5 676	76.7
1983-84	5 542	14 430	25 863	15 061	5 891	87.7
1984-85	5 287	19 314	30 617	15 522	6 016	69.2
1985-86	9 172	17 451	32 933	16 456	6 310	49.0
1986-87	10 364	15 319	32 888	17 913	7 205	62.1
1987-88	7 714	17 733	32 094	18 437	6 647	72.3
1988-89	7 102	18 337	32 751	18 698	7 312	66.4
1989-90	6 763	17 356	31 241	18 972	7 122	82.4
1990-91	5 440	18 973	31 068	18 656	6 655	82.9
1991-92	5 976	20 748	33 040	18 843	6 315	63.1
1992-93	8 047	17 920	31 851	18 804	5 884	57.7
1993-94	7 500	16 906	30 481	18 648	6 075	70.6
1994-95	6 029	18 780	31 395	18 317	6 586	91.1
1995-96	6 944	20 406	33 228	18 579	5 878	85.5
1996-97	8 710	19 601	34 534	19 011	6 222	78.6
1997-98	9 710	20 082	35 437	18 923	5 645	72.2
1998-99	10 745	18 616	34 691	18 281	5 330	60.2
1999-00	11 357	19 099	36 547	19 759	6 091	52.5
2000-01	10 931	19 345	35 982	19 768	5 706	57.2
2001-02	10 465	21 501	38 376	20 361	6 410	41.8
2002-03	11 694	19 215	37 460	21 234	6 551	55.4
2003-04	9 623	20 741	37 780	21 175	7 416	68.3
2004-05	9 372	26 195	42 824	23 447	7 257	52.4
2005-06	11 753	24 884	46 253	25 155	9 616	56.0

^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 '000 ha	Lint yield kg/ha	Production					
			Brazil kt	India kt	Pakistan kt	United States kt	China kt	World kt
1960-61	32 120	305	425	1 022	304	3 100	1 067	9 812
1961-62	32 419	299	550	895	328	3 110	806	9 703
1962-63	31 761	322	501	1 086	368	3 228	740	10 231
1963-64	32 852	337	501	1 103	422	3 330	1 197	11 064
1964-65	33 525	349	457	1 031	380	3 297	1 655	11 702
1965-66	33 287	372	544	961	417	3 255	2 090	12 399
1966-67	31 167	365	427	960	466	2 080	2 330	11 378
1967-68	30 923	363	575	1 129	520	1 621	2 351	11 226
1968-69	31 912	388	718	1 035	529	2 379	2 351	12 387
1969-70	32 461	364	580	1 044	538	2 175	2 079	11 828
1970-71	31 803	380	595	963	544	2 219	2 286	12 100
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	32 846	414	535	1 079	633	2 825	2 547	13 603
1974-75	33 508	415	533	1 199	610	2 513	2 460	13 895
1975-76	29 874	393	400	1 130	494	1 808	2 373	11 752
1976-77	30 535	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	32 904	394	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	32 368	426	594	1 322	714	2 422	2 700	13 800
1981-82	32 933	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	33 734	573	968	1 820	1 008	2 827	6 249	19 314
1985-86	31 584	553	793	1 964	1 216	2 925	4 137	17 451
1986-87	29 353	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	33 767	543	709	1 788	1 426	3 355	4 159	18 337
1989-90	31 689	548	666	2 295	1 456	2 655	3 788	17 356
1990-91	33 160	572	717	1 989	1 638	3 376	4 507	18 973
1991-92	34 786	596	667	2 023	2 177	3 835	5 683	20 748
1992-93	32 642	549	420	2 346	1 540	3 531	4 507	17 920
1993-94	30 710	550	483	2 134	1 368	3 513	3 745	16 906
1994-95	32 238	583	537	2 427	1 361	4 281	4 333	18 780
1995-96	35 968	567	410	2 885	1 785	3 897	4 768	20 406
1996-97	33 731	581	306	3 030	1 594	4 124	4 202	19 601
1997-98	33 779	595	412	2 686	1 562	4 092	4 594	20 082
1998-99	32 870	566	521	2 805	1 372	3 030	4 507	18 616
1999-00	32 229	593	700	2 652	1 872	3 694	3 832	19 099
2000-01	32 002	604	939	2 380	1 785	3 742	4 420	19 345
2001-02	33 738	637	766	2 678	1 807	4 421	5 313	21 501
2002-03	30 451	631	847	2 308	1 698	3 747	4 921	19 215
2003-04	32 236	643	1 310	3 048	1 687	3 975	4 855	20 741
2004-05	35 774	732	1 285	4 137	2 426	5 062	6 314	26 195
2005-06	34 393	724	1 023	4 180	2 145	5 201	5 704	24 884

^a August-July crop year. ^{na} Not applicable.

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Africa	1 130	1 148	1 048	1 103	1 270	1 373	1 394	1 525
Sub-saharan Africa	1 302	1 056	966	1 014	1 117	1 286	1 252	1 422
Burkina	114	113	113	142	158	207	212	294
America	1 273	1 649	1 746	2 660	2 772	3 344	3 607	4 438
United States	936	1 470	1 467	2 395	2 591	2 995	3 143	3 821
South America	313	148	258	243	164	319	431	537
Brazil	5	3	69	147	106	210	339	446
Australia	662	699	834	718	596	459	410	650
Greece	210	235	310	218	250	267	255	294
Mali	207	196	125	201	185	256	207	234
Uzbekistan	830	914	751	762	740	675	860	1 045
Other	810	1 080	934	659	790	859	891	1 283
Total	5 122	5 921	5 748	6 321	6 603	7 233	7 624	9 470

^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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Asia	2 545	2 754	2 758	3 262	3 504	4 655	4 458	7 052
Bangladesh	142	169	218	261	348	370	403	446
China	72	25	50	98	681	1 923	1 390	4 191
Chinese Taipei	299	313	226	333	265	220	291	239
Indonesia	506	452	577	513	485	468	479	479
Korea	320	332	309	352	325	277	292	229
Pakistan	201	103	98	218	185	403	370	425
Thailand	263	369	342	410	423	365	497	408
Turkey	248	525	383	648	493	516	742	751
Other Asia	741	990	937	1 077	791	628	736	635
European Union ^b	1 050	1 064	1 038	964	840	688	617	465
Mexico	310	395	406	450	507	405	394	370
Middle East	265	555	409	681	540	550	785	790
Russian Federation	185	348	359	392	359	321	316	327
Other	975	975	735	661	801	798	687	612
Total	5 330	6 091	5 706	6 410	6 551	7 416	7 257	9 616

^a August-July crop year. Does not include cotton in transit. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00.

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 '000	Milk yield per cow L	Production			Export price ^c	
			Milk ^b	Butter	Cheese	Butter	Cheese
			ML	kt	kt	\$/t	\$/t
1960-61	3 162	1 926	6 089	182	48	638	503
1961-62	3 230	2 032	6 563	201	57	598	458
1962-63	3 263	2 045	6 673	204	60	604	462
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	2 906	5 432	84	151	1 595	1 545
1980-81	1 819	2 871	5 223	79	135	1 875	1 926
1981-82	1 810	2 905	5 258	76	153	2 714	2 158
1982-83	1 792	3 078	5 516	88	158	2 412	2 444
1983-84	1 809	3 269	5 913	111	161	1 871	2 611
1984-85	1 809	3 335	6 033	114	160	1 617	2 433
1985-86	1 770	3 411	6 038	105	170	1 592	2 515
1986-87	1 757	3 598	6 173	104	177	1 758	2 645
1987-88	1 714	3 657	6 130	98	176	1 634	2 735
1988-89	1 709	3 781	6 290	101	191	1 970	2 990
1989-90	1 698	3 790	6 263	111	175	2 421	3 461
1990-91	1 682	3 911	6 403	108	179	1 968	3 203
1991-92	1 699	4 074	6 732	114	198	2 177	3 316
1992-93	1 716	4 318	7 327	131	210	2 241	3 693
1993-94	1 786	4 523	8 077	152	234	2 197	3 750
1994-95	1 821	4 506	8 206	141	240	2 076	3 449
1995-96	1 884	4 626	8 716	154	272	2 993	3 881
1996-97	1 977	4 571	9 036	158	290	2 001	3 702
1997-98	2 060	4 582	9 439	163	310	2 264	3 955
1998-99	2 155	4 723	10 178	189	328	2 510	3 967
1999-00	2 171	4 996	10 847	182	373	2 123	3 670
2000-01	2 176	4 846	10 545	172	376	2 419	4 342
2001-02	2 123	5 309	11 271	178	412	2 417	4 738
2002-03	2 050	5 037	10 326	165	379	2 014	3 844
2003-04	2 038	4 943	10 075	149	384	2 187	3 483
2004-05	2 076	4 877	10 125	147	388	2 713	3 850
2005-06	2 050	4 923	10 092	146	373	2 724	4 145

^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.

dairy products

75 Value of Australian exports of dairy products, by destination

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Cheese								
Japan	\$m	306.6	338.8	429.2	272.0	299.6	378.9	298.5
Philippines	\$m	16.4	18.6	20.0	15.7	11.1	18.2	13.7
Saudi Arabia	\$m	94.1	123.6	148.2	98.9	69.0	81.5	103.5
United Kingdom	\$m	23.9	38.7	21.5	15.2	18.3	20.5	20.1
United States	\$m	28.8	39.1	48.3	36.1	33.9	45.4	54.8
Other	\$m	336.8	391.0	366.3	361.9	306.6	330.9	345.5
Total	\$m	806.6	949.9	1 033.4	799.8	738.4	875.4	836.1
Butter and butterfat ^a								
Egypt	\$m	33.7	34.6	23.5	18.9	6.4	10.5	12.5
Malaysia	\$m	15.8	14.7	14.4	12.7	13.5	11.6	15.8
Philippines	\$m	11.9	8.6	5.1	3.7	1.9	2.8	5.1
Singapore	\$m	19.4	16.7	20.4	15.5	18.2	16.8	21.1
Thailand	\$m	27.3	19.8	23.0	13.2	12.7	13.5	12.0
Other	\$m	182.6	196.6	211.0	160.0	129.4	133.0	157.6
Total	\$m	290.5	291.0	297.4	224.0	182.1	188.3	224.1
Skim milk powder								
Japan	\$m	56.2	48.9	53.7	29.6	13.3	10.6	12.5
Malaysia	\$m	78.3	87.4	88.4	51.4	52.7	64.2	77.1
Philippines	\$m	102.0	181.4	143.5	69.0	59.8	49.4	72.0
Singapore	\$m	26.7	51.8	52.8	38.4	41.3	57.7	56.1
Thailand	\$m	55.1	67.2	69.1	33.2	20.0	21.7	76.8
Other	\$m	159.8	257.5	290.5	184.1	198.8	216.3	234.3
Total	\$m	478.1	694.2	697.9	405.6	386.0	419.9	528.9
Casein								
Japan	\$m	15.3	19.9	26.7	20.6	23.3	23.1	30.4
United States	\$m	62.6	56.7	80.5	81.4	68.8	56.6	27.3
Other	\$m	15.3	23.4	15.5	26.4	30.4	36.4	31.3
Total	\$m	93.2	100.1	122.6	128.4	122.5	116.1	88.9
Wholemilk powder								
Malaysia	\$m	27.0	26.9	39.2	22.3	28.9	33.1	23.8
Singapore	\$m	15.7	31.7	29.7	25.2	21.4	30.9	44.6
Taiwan	\$m	49.2	54.9	54.1	44.9	40.0	31.5	22.8
Thailand	\$m	28.8	24.9	22.6	14.0	12.0	8.6	10.5
Other	\$m	282.8	441.8	425.5	273.4	218.9	220.3	231.9
Total	\$m	403.4	580.2	571.1	379.8	321.1	324.4	333.6
Other products								
Fresh milk	\$m	81.4	82.0	98.1	98.1	104.0	108.7	107.3
Other fresh products	\$m	20.2	12.7	7.9	5.5	9.6	9.1	6.3
Condensed milk	\$m	87.6	111.5	123.7	133.3	121.0	139.8	147.5
Other powders	\$m	182.2	223.2	276.6	272.1	253.9	244.9	241.2
Total	\$m	371.5	429.4	506.2	509.1	488.6	502.6	502.3

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

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

76 Volume of Australian exports of dairy products, by destination

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Cheese								
Japan	kt	84.9	84.6	103.2	73.2	92.4	106.5	81.0
Philippines	kt	5.4	5.5	5.2	4.9	3.7	5.0	3.4
Saudi Arabia	kt	14.6	16.3	17.4	14.8	14.9	17.0	20.7
United Kingdom	kt	6.8	9.8	4.3	4.3	5.0	5.1	5.1
United States	kt	8.3	9.4	10.8	9.0	10.3	11.9	11.8
Other	kt	99.7	93.2	77.1	101.9	85.7	81.9	79.7
Total	kt	219.8	218.8	218.1	208.1	212.0	227.4	201.7
Butter and butterfat ^a								
Egypt	kt	17.3	15.5	12.1	10.5	3.6	4.4	4.8
Malaysia	kt	6.8	6.0	5.2	4.7	4.7	3.4	4.8
Philippines	kt	5.8	4.0	2.4	2.1	1.0	1.1	2.0
Singapore	kt	9.0	6.3	8.0	6.5	7.0	7.1	8.1
Thailand	kt	12.4	8.9	9.8	7.7	6.5	5.5	4.6
Other	kt	80.9	75.8	81.8	74.4	58.7	46.6	54.9
Total	kt	136.8	120.3	123.1	111.2	83.3	69.4	82.3
Skim milk powder								
Japan	kt	27.2	20.2	18.3	16.4	7.6	3.9	4.1
Malaysia	kt	36.1	25.9	25.3	22.9	22.1	22.0	25.7
Philippines	kt	47.0	51.1	41.4	29.8	24.2	17.7	26.0
Singapore	kt	12.4	15.1	16.4	17.8	17.0	20.7	21.1
Thailand	kt	24.4	18.2	21.8	14.9	7.9	8.3	26.8
Other	kt	71.1	72.1	87.0	79.2	76.3	68.1	77.6
Total	kt	218.2	202.6	210.2	180.9	155.0	140.7	181.2
Casein								
Japan	kt	2.0	1.9	2.2	2.1	2.6	2.1	2.5
United States	kt	10.4	5.9	8.9	13.2	10.5	6.5	2.6
Other	kt	3.1	3.3	2.0	5.2	5.0	4.2	3.2
Total	kt	15.5	11.1	13.1	20.5	18.2	12.8	8.3
Wholemilk powder								
Chinese Taipei	kt	17.8	14.4	13.2	13.3	11.5	9.2	7.4
Malaysia	kt	10.0	7.9	10.3	6.8	11.1	11.0	7.9
Singapore	kt	6.4	9.6	9.8	12.3	8.8	10.6	15.1
Thailand	kt	11.5	7.8	6.4	5.8	4.8	2.9	3.6
Other	kt	107.7	127.8	125.6	103.5	80.6	71.0	76.4
Total	kt	153.4	167.5	165.3	141.7	116.8	104.8	110.3
Other products								
Fresh milk	ML	86.1	83.1	86.9	88.3	85.7	86.7	86.1
Other fresh products	ML	5.2	3.1	1.4	1.5	2.5	2.5	1.8
Condensed milk	kt	68.9	62.6	71.5	102.3	100.2	102.6	94.8
Other powders	kt	58.5	53.5	67.4	73.7	70.0	68.5	68.5

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

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

dairy products

77 Australian dairy cow numbers, by state ^a

	New South Wales '000	Victoria '000	Queensland '000	Western Australia '000	South Australia '000	Tasmania '000	Australia ^b '000
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	251	1 379	145	65	97	138	2 076
2006	240	1 385	140	60	90	135	2 050

^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, Canberra.

78 Australian production of wholemilk, by state ^a

	New South Wales ML	Victoria ML	Queensland ML	Western Australia ML	South Australia ML	Tasmania ML	Australia ^b ML
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	980	3 518	683	233	398	436	6 248
1976-77	943	3 212	624	215	355	423	5 772
1977-78	891	3 263	559	209	339	360	5 621
1978-79	906	3 283	570	213	332	365	5 669
1979-80	907	3 151	508	222	329	315	5 432
1980-81	840	3 065	495	214	319	289	5 223
1981-82	875	3 028	546	209	306	294	5 258
1982-83	905	3 164	564	221	340	322	5 516
1983-84	940	3 400	619	232	382	340	5 913
1984-85	940	3 516	616	243	372	346	6 033
1985-86	904	3 575	600	243	365	351	6 038
1986-87	906	3 692	601	248	374	352	6 173
1987-88	932	3 649	617	249	377	306	6 130
1988-89	923	3 792	626	245	370	334	6 290
1989-90	879	3 787	629	267	356	343	6 263
1990-91	857	3 907	626	283	366	363	6 403
1991-92	894	4 119	635	302	411	372	6 732
1992-93	997	4 456	702	326	434	413	7 327
1993-94	1 098	4 968	764	344	456	447	8 077
1994-95	1 087	5 114	740	343	485	437	8 206
1995-96	1 115	5 482	751	342	512	514	8 716
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	1 285	6 414	827	403	646	603	10 178
1999-00	1 395	6 870	848	412	714	609	10 847
2000-01	1 326	6 777	760	393	699	590	10 545
2001-02	1 343	7 405	744	393	715	672	11 271
2002-03	1 301	6 584	719	399	733	585	10 326
2003-04	1 271	6 434	674	403	703	590	10 075
2004-05	1 218	6 613	619	396	679	600	10 125
2005-06	1 717	6 583	610	380	680	622	10 092

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

Source: Australian Dairy Corporation, *Monthly Statistics*, Melbourne.

dairy products

79 Australian manufacture of dairy products

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt	kt
Butter a	189.0	181.6	172.3	178.4	164.5	148.9	146.7	145.8
Cheese	327.8	373.3	376.5	412.1	379.0	383.8	388.4	372.7
Non-cheddar	141.2	157.0	163.9	173.7	184.3	181.8	174.8	161.3
Cheddar	186.6	216.3	212.5	238.4	194.7	202.0	213.6	211.5
Wholemilk powder	144.8	186.7	205.4	238.7	198.3	186.9	189.2	158.3
Skim milk powder b	255.2	246.6	249.3	240.2	205.6	185.8	190.6	211.6
Casein	13.5	15.0	13.0	13.9	13.1	14.0	13.0	13.0
Buttermilk powder	17.0	17.8	15.8	18.0	16.6	16.6	16.7	15.9

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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Total consumption								
Butter	kt	54.7	57.2	63.6	66.4	67.1	70.0	76.8
Margarine (table)	kt	83.0	82.7	82.8 s	84.0	82.9	84.0	88.9
Cheese a	kt	201.8	211.5	229.5	226.6	238.9	230.1	228.3
Australian	kt	170.8	179.5	192.9	188.7	195.4	189.7	186.2
Wholemilk powder	kt	17.0	14.9	14.0	21.5	21.7	24.0	22.2
Skim milk powder b	kt	33.9	36.8	36.9	37.1	37.5	38.0	38.4
Casein	kt	0.4	0.5	0.5	0.7	0.8	0.8	2.0
Market milk	ML	1 931	1 934	1 934	1 924	1 941	1 981	2 024
Consumption per person								
Butter	kg	2.9	3.0	3.3	3.4	3.4	3.5	3.8
Margarine (table)	kg	4.4	4.3	4.3	4.3	4.2	4.2	4.4
Cheese a	kg	10.7	11.1	11.9	11.6	12.1	11.5	11.3
Australian	kg	9.1	9.4	10.0	9.7	9.9	9.5	9.2
Wholemilk powder	kg	0.9	0.8	0.7	1.1	1.1	1.2	1.1
Skim milk powder b	kg	1.8	1.9	1.9	1.9	1.9	1.9	1.9
Market milk	L	102.4	101.5	100.3	98.5	98.3	99.0	100.2

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 c/L	Market milk c/L	Weighted average c/L	Manufacturing milk \$m	Market milk \$m	Total \$m
1960-61	na	na	5.3	196	128	324
1961-62	na	na	5.1	205	132	337
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	2 496	558	3 053
2001-02	na ^c	na ^c	33.0	3 093	625	3 717
2002-03	na ^c	na ^c	27.1	2 274	521	2 795
2003-04	na ^c	na ^c	27.9	2 253	555	2 809
2004-05	na ^c	na ^c	31.5	2 552	642	3 194
2005-06	na ^c	na ^c	33.1	2 657	684	3 340

^a A slight series break occurs in 1977-78 as a result of a change in the method of valuation. ^b From 1990-91, manufacturing milk price is reported net of market support. ^c Since deregulation of farm gate milk prices from July 2000, manufacturing and market milk prices are no longer reported separately. **na** Not available.

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

dairy products

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
1998						
March	116	135	760	714	366	410
June	116	135	742	674	374	408
September	116	135	722	724	374	422
December	116	135	778	716	362	410
1999						
March	122	139	786	720	380	412
June	122	140	762	730	372	418
September	122	140	776	702	384	422
December	129	142	762	710	380	432
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

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

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

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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	2 990.35	2 245.10	2 650.20	6 340.49
1989-90	2 420.90	3 460.80	2 340.85	2 852.70	5 703.72
1990-91	1 967.87	3 203.04	1 783.98	2 193.05	4 178.16
1991-92	2 177.05	3 316.42	1 953.08	2 431.63	4 819.16
1992-93	2 240.51	3 693.29	2 553.84	2 918.19	6 878.72
1993-94	2 196.56	3 750.07	2 232.74	2 603.09	13 969.66
1994-95	2 076.10	3 448.84	2 292.65	2 471.42	6 876.40
1995-96	2 992.85	3 880.56	2 845.11	3 141.29	8 563.52
1996-97	2 000.87	3 702.17	2 462.28	2 778.68	6 027.01
1997-98	2 263.69	3 954.53	2 495.26	2 882.43	4 997.45
1998-99	2 510.24	3 967.28	2 253.39	2 883.26	5 274.02
1999-00	2 123.48	3 670.02	2 191.42	2 629.23	6 022.21
2000-01	2 418.54	4 342.15	3 425.69	3 464.29	9 039.84
2001-02	2 417.05	4 738.11	3 320.31	3 454.24	9 355.49
2002-03	2 013.80	3 844.32	2 242.50	2 681.01	6 257.54
2003-04	2 186.88	3 483.33	2 490.09	2 749.48	6 733.14
2004-05	2 712.84	3 849.87	2 984.89	3 094.28	9 058.69
2005-06	2 723.55	4 144.51	2 918.10	3 023.89	10 738.75

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

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

84 Volume of Australian imports of cheese, by variety

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Volume	kt	kt	kt	kt	kt	kt	kt
Processed							
Cheddar	5.43	4.50	7.83	11.72	11.75	13.35	14.25
Emmenthaler	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Gruyere	0.08	0.08	0.02	0.00	0.00	0.00	0.00
Other	6.90	8.87	3.29	0.45	0.31	0.20	0.40
Natural							
Blue vein	0.66	0.76	0.83	1.09	1.14	1.09	1.09
Camembert	0.32	0.36	0.21	0.19	0.25	0.25	0.21
Cheddar	10.92	13.47	15.91	19.24	18.09	18.83	22.88
Colby	1.18	1.47	1.79	1.89	2.00	1.72	2.09
Edam	0.75	0.75	1.00	0.94	1.05	0.97	0.86
Emmenthaler	0.13	0.18	0.15	0.00	0.00	0.00	0.00
Fetta	1.25	1.32	1.79	2.07	2.32	2.83	3.30
Gouda	0.51	0.44	0.59	0.36	0.77	0.39	0.50
Kasseri	0.15	0.12	0.14	0.15	0.12	0.12	0.10
Mozzarella	2.10	2.81	2.13	2.88	0.69	0.72	2.64
Parmesan	1.08	0.87	1.32	1.58	1.31	0.93	1.38
Provolone	0.26	0.34	0.31	0.26	0.35	0.38	0.39
Other	0.21	0.19	0.55	0.75	0.26	0.24	0.71
Total	31.96	36.54	37.87	43.57	40.41	42.02	50.80
Unit value	\$/kg	\$/kg	\$/kg	\$/kg	\$/kg	\$/kg	\$/kg
Processed							
Cheddar	3.91	3.83	3.89	3.45	3.57	4.16	4.30
Emmenthaler	4.87	7.84	0.00	0.00	0.00	0.00	0.00
Gruyere	6.69	7.63	7.41	0.00	0.00	0.00	0.00
Other	3.92	4.04	4.68	8.69	10.02	13.01	8.08
Natural							
Blue vein	10.42	10.21	11.13	11.04	10.41	11.46	11.78
Camembert	9.06	9.64	10.07	10.62	9.87	10.53	10.35
Cheddar	3.36	3.26	3.76	3.05	2.97	3.61	3.78
Colby	3.75	3.59	3.76	3.22	2.98	4.11	4.28
Edam	4.17	4.31	4.61	4.34	4.08	4.82	5.05
Emmenthaler	6.18	7.03	7.33	0.00	0.00	0.00	0.00
Fetta	5.39	6.43	5.50	5.65	5.50	5.42	5.01
Gouda	5.55	4.71	4.37	5.80	4.26	6.11	5.81
Kasseri	8.01	9.02	7.99	9.51	9.19	9.56	9.12
Mozzarella	3.36	3.53	3.72	3.50	3.15	3.35	3.86
Parmesan	9.67	9.62	8.53	7.33	9.76	10.85	8.69
Provolone	8.19	8.64	9.20	9.62	9.13	9.13	9.07
Other	6.15	6.46	5.16	4.26	7.41	7.73	4.72
Average	4.19	4.13	4.41	3.87	3.93	4.48	4.48

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

85 Summary of world statistics for dairy products

	Production			Consumption		Exports ^a	
	Milk Mt	Butter kt	Cheese kt	Butter kt	Cheese kt	Butter kt	Cheese kt
1967	na	5 125	na	4 959	na	659	na
1968	336	5 281	5 128	5 007	5 074	730	701
1969	335	5 060	5 291	4 919	5 306	718	689
1970	336	5 047	5 744	5 000	5 751	924	747
1971	338	5 035	6 117	4 959	6 031	814	796
1972	346	5 377	6 553	5 012	6 379	690	805
1973	353	5 548	6 779	5 529	6 719	1 086	907
1974	360	5 214	7 147	5 409	6 941	977	973
1975	361	5 513	7 210	5 457	7 088	886	962
1976	367	5 600	2 298	5 513	7 512	981	1 099
1977	372	5 944	7 822	5 669	7 855	1 003	1 161
1978	377	5 997	8 172	5 627	8 113	1 038	1 271
1979	381	6 011	8 519	5 755	8 363	1 287	1 410
1980	386	6 174	8 193	5 882	7 728	1 328	1 450
1981	386	6 070	8 423	5 806	7 944	1 297	1 534
1982	398	6 361	8 805	5 687	8 425	1 312	1 484
1983	413	6 892	9 012	6 023	8 614	1 197	1 502
1984	413	6 834	9 167	6 157	8 860	1 337	1 701
1985	419	6 817	9 473	6 233	9 092	1 400	1 720
1986	426	7 102	9 764	6 376	9 479	1 310	1 733
1987	426	6 622	10 065	6 717	9 814	1 820	1 774
1988	429	6 567	10 490	6 785	10 149	1 888	1 855
1989	435	6 719	10 748	6 327	10 418	1 427	1 832
1990	442	6 824	10 915	6 262	10 581	1 104	1 997
1991	429	5 667	10 939	5 252	10 617	706	2 039
1992 ^b	380	5 470	10 931	5 245	10 569	694	2 051
1993	378	5 493	10 895	5 169	10 550	718	864
1994	378	5 221	11 194	5 109	10 897	688	917
1995	381	5 173	11 345	4 954	11 028	675	969
1996	364	5 134	11 059	4 833	10 565	641	941
1997	366	5 073	11 388	4 863	11 121	745	1 010
1998	374	5 216	11 378	4 910	11 190	625	907
1999	378	5 361	11 750	4 988	11 623	591	892
2000	382	5 561	12 437	5 355	12 096	712	1 068
2001	385	6 098	12 540	5 724	12 338	743	1 086
2002	392	6 514	12 953	6 018	12 601	743	1 157
2003	397	6 567	12 938	6 161	12 708	865	1 180
2004	404	6 627	13 524	6 253	13 255	904	1 241
2005	415	6 854	13 865	6 463	13 640	800	1 234

^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. **na** Not available.

Source: US Department of Agriculture, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC.

dairy products

86 Milk production in selected regions and countries

	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Americas							
Canada	8 164	8 161	8 106	7 964	7 734	7 905	7 797
United States	73 750	75 929	74 994	77 140	77 290	77 535	80 282
Asia							
India	36 000	36 250	36 400	36 200	36 500	37 500	38 500
Europe	179 808	178 792	181 426	183 550	183 647	182 130	183 327
European Union ^a	115 218	129 392	130 069	131 040	131 847	130 620	132 027
Oceania	21 248	23 407	24 026	25 533	24 982	25 377	24 929
Australia ^b	10 178	11 172	10 864	11 608	10 636	10 377	10 429
New Zealand ^c	11 070	12 235	13 162	13 925	14 346	15 000	14 500
Total ^d	380 277	386 769	391 409	402 266	406 378	412 337	421 328

^a Regarded as fifteen countries to 1999, then twenty five countries from 2000. ^b Year ended 30 June. ^c Year ended 31 May. ^d Includes 31 major producing countries.

Source: US Department of Agriculture, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC.

87 Production of dairy products in selected regions and countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Butter								
Australia ^{abc}	163	189	182	172	178	164	149	147
Europe								
Russian Federation	270	260	265	270	280	280	270	275
European Union ^d	1 721	1 731	1 995	2 021	2 226	2 226	2 154	2 155
Japan ^e	89	86	88	80	83	80	80	84
New Zealand ^{bcf}	343	316	344	352	380	405	418	341
United States	530	579	570	559	615	563	567	611
Total	5 296	5 474	5 762	6 098	6 514	6 567	6 627	6 854
Cheese								
Australia ^a	310	328	373	376	412	379	384	386
Europe								
Russian Federation	170	185	220	260	340	335	350	375
European Union ^d	5 151	5 290	5 861	5 865	5 993	6 100	6 371	6 500
Japan ^f	35	35	34	34	36	35	35	36
New Zealand ^g	266	245	297	281	312	301	305	291
United States	3 398	3 581	3 746	3 747	3 877	3 881	4 026	4 140
Total	11 378	12 016	12 499	12 602	13 019	13 013	13 539	13 888
Skim milk powder								
Australia ^a	215	255	247	249	240	203	184	189
Europe								
Russian Federation	170	130	125	130	140	145	125	110
European Union ^d	1 092	1 108	1 322	1 215	1 369	1 326	1 066	1 094
Japan	202	192	194	175	183	183	183	187
New Zealand ^g	215	203	197	227	255	289	274	225
United States	515	617	659	641	724	721	638	740
Total	3 055	3 183	3 399	3 402	3 676	3 655	3 318	3 416

^a Year ended 30 June. ^b Includes butter anhydrous milk fat and ghee. ^c Factory production only. ^d Regarded as fifteen countries to 1999, then twenty five countries from 2000. ^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, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC; ABARE.

88 Volume of exports of dairy products, by selected countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Butter								
Australia ab	105	117	137	120	123	111	83	69
European Union c								
Net exports	168	161	185	196	222	307	354	340
New Zealand ab	315	279	338	347	353	399	400	316
Russian Federation	6	3	3	3	5	5	5	5
Ukraine	10	8	31	53	15	18	42	30
United States	3	2	4	3	3	10	8	8
Cheese								
Australia a	153	175	220	219	218	208	212	227
European Union c								
Net exports	419	376	483	485	516	514	516	490
New Zealand ab	232	240	253	251	277	290	289	265
Switzerland	57	60	54	53	50	50	51	50
Skim milk powder								
Australia a	178	220	218	203	210	181	155	141
Canada	34	41	32	46	49	36	16	6
European Union c								
Net exports	175	272	453	284	267	339	283	179
New Zealand ad	197	205	175	195	248	314	305	221
United States	104	217	142	96	126	141	231	300

a Year ended 30 June. **b** Includes butter, anhydrous milk fat and ghee. **c** Regarded as fifteen countries to 1999, then twenty five countries from 2000. 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, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC; ABARE.

89 Volume of imports of dairy products, by selected countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Butter								
European Union a	95	105	88	93	92	92	93	85
Japan	1	0	0	0	4	13	7	6
Poland	1	8	12	3	5	5	6	7
Russian Federation	150	55	60	110	120	160	170	110
Switzerland	4	5	7	6	2	2	1	1
Ukraine	0	3	1	2	1	0	0	0
Cheese								
Canada	23	25	29	27	28	24	24	25
European Union a	124	142	134	142	116	127	106	95
Japan	184	187	205	202	204	194	219	212
United States	156	195	186	198	214	216	214	209
Skim milk powder								
European Union a	66	73	64	48	30	56	26	7
India	1	18	17	0	0	0	15	0
Japan	57	57	52	53	44	43	37	34
Mexico	93	123	129	141	132	173	170	172
Peru	11	13	13	13	9	9	8	6

a Regarded as fifteen countries to 1999, then twenty five countries from 2000. Excludes intra-EU trade.

Sources: US Department of Agriculture, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC.

dairy products

90 Stocks of dairy products in principal producing countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Butter								
Australia a	16	21	14	6	2	2	8	14
Canada	9	14	15	20	13	13	15	19
European Union b	272	295	136	151	248	276	232	184
New Zealand c	86	93	72	50	51	31	23	23
United States	12	11	11	25	72	45	20	25
Total	493	544	322	315	451	421	342	308
Cheese								
Australia a	88	77	65	58	73	55	51	26
Canada	44	42	46	49	52	59	59	60
European Union b	0	0	0	0	0	0	0	0
New Zealand c	41	13	34	43	51	36	26	26
United States	235	282	322	301	332	337	322	320
Total	528	511	559	553	604	572	518	499
Skim milk powder								
Australia a	29	19	2	18	16	7	5	19
Canada	12	6	17	19	8	23	41	38
European Union b	326	280	51	45	188	218	77	8
New Zealand c	67	54	71	98	100	70	35	35
United States	69	113	288	408	521	445	232	65
Total	693	667	633	792	1 018	925	551	324

a Year ending 30 June. **b** Regarded as fifteen countries to 1999, then twenty five countries from 2000. **c** Year ending 31 May.
Source: US Department of Agriculture, *Dairy: World Markets and Trade*, *Foreign Agriculture Circular*, Washington DC.

91 Major components of Australian farm costs

	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 123	1 060	1 107	1 091	1 120	1 188	1 236	1 360
Fertiliser	941	1 024	1 065	1 244	1 378	1 651	1 760	1 805
Chemicals	866	924	993	1 059	1 139	1 349	1 480	1 497
Seed and fodder	2 354	2 600	2 396	2 437	3 131	2 928	2 801	2 948
Marketing	2 094	2 059	2 268	2 306	1 955	2 519	2 923	2 726
Repairs and maintenance	1 572	1 522	1 580	1 706	1 768	1 920	2 003	2 011
Other	3 142 ^a	2 606	2 591	2 828	3 064	2 937	2 954	2 920
Total	12 092	11 795	12 000	12 671	13 555	14 492	15 157	15 266
Other costs								
Wages	2 352	2 230	2 284	2 445	2 667	2 738	2 983	2 976
Interest paid	2 462	2 220	1 838	1 695	2 069	2 182	2 180	1 976
Other overheads	315	276	303	337	344	356	360	360
Total	5 129	4 726	4 425	4 477	5 080	5 276	5 523	5 313
Total cash costs	17 221	16 521	16 425	17 148	18 635	19 769	20 680	20 579
Depreciation	2 947	2 871	2 915	3 039	3 073	3 144	3 230	3 306
Total farm costs	20 168	19 392	19 340	20 187	21 708	22 913	23 910	23 885
	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06 ^s
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 230	1 450	1 671	1 580	1 520	1 626	1 765	2 203
Fertiliser	1 906	1 840	1 920	1 980	1 820	1 827	1 851	1 729
Chemicals	1 576	1 604	1 664	1 760	1 550	1 649	1 691	1 749
Seed and fodder	2 974	2 847	3 072	3 226	4 874	4 317	4 267	3 860
Marketing	2 901	3 144	3 198	3 395	2 433	3 567	3 433	3 639
Repairs and maintenance	2 154	2 150	2 262	2 328	2 392	2 453	2 493	2 602
Other	2 916	3 017	3 184	3 339	3 329	3 378	3 473	3 685
Total	15 657	16 052	16 971	17 608	17 918	18 817	18 974	19 467
Other costs								
Wages	3 133	3 250	3 360	3 367	3 226	3 588	3 661	3 778
Interest paid	1 917	2 023	2 249	2 087	2 295	2 448	2 579	2 716
Other overheads	364	372	389	400	412	422	432	446
Total	5 414	5 645	5 998	5 854	5 933	6 458	6 672	6 940
Total cash costs	21 071	21 697	22 969	23 463	23 851	25 275	25 646	26 408
Depreciation	3 439	3 526	3 687	3 796	3 915	4 017	4 122	4 255
Total farm costs	24 511	25 223	26 657	27 258	27 766	29 292	29 768	30 663

^a The large increase in 1990-91 was caused by the sharp rise in the wool tax. ^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.

farm inputs

92 Indexes of prices paid by farmers in Australia

	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	80.6	82.3	82.5	85.3	87.6	88.9	95.7	101.1	99.2
Fodder and feedstuffs	76.6	79.0	75.5	80.5	78.5	79.9	92.2	101.4	98.9
Store and breeding stock	92.3	88.6	82.0	79.7	78.8	95.0	96.7	96.1	89.4
Total	81.7	81.8	77.6	80.5	79.1	85.1	93.9	100.2	96.6
Fertiliser	76.9	82.4	85.0	90.3	88.7	87.1	89.6	98.2	99.2
Chemicals and medicines	91.2	93.2	96.4	97.5	98.0	97.2	97.9	98.1	99.0
Fuel and lubricants	80.4	91.6	106.0	99.6	104.1	100.5	96.6	100.4	104.9
Electricity	90.4	93.4	96.7	100.4	101.8	100.9	98.3	97.7	99.4
Maintenance									
Plant and equipment	67.7	72.9	79.3	83.6	86.7	89.9	92.5	95.3	97.6
Structures	73.8	79.8	84.9	87.5	89.4	91.0	92.5	94.6	95.4
Total	69.6	75.0	81.0	84.8	87.5	90.2	92.5	95.1	96.9
Contracts	76.4	81.0	86.5	90.0	92.8	95.6	97.3	98.4	99.6
Other materials and services	79.4	85.7	90.2	91.2	92.4	94.1	96.8	100.1	100.0
Total	79.5	83.2	85.3	87.4	87.8	90.2	94.2	98.7	98.6
Labor	73.5	78.9	82.7	86.5	89.7	91.0	92.3	95.1	97.0
Marketing									
Freight outwards	87.5	90.9	95.5	96.9	97.9	98.5	98.5	98.5	98.6
Selling expenses	83.0	85.5	85.7	86.9	86.7	89.3	91.7	95.6	95.5
Total	83.8	86.4	87.4	88.7	88.7	91.0	92.9	96.2	96.1
Overheads									
Interest paid	169.6	199.9	170.3	139.6	107.4	100.2	113.2	127.9	117.0
Rates and taxes	73.2	80.4	87.4	89.3	91.5	92.0	94.2	92.2	95.6
Insurance	53.7	62.0	64.8	64.2	67.0	71.3	74.3	90.8	98.1
Other overheads	75.6	80.6	85.2	92.3	94.1	95.7	96.8	99.2	100.5
Total	110.6	126.7	120.1	109.6	96.9	94.6	101.6	109.3	106.5
Capital items									
Plant and equipment	77.0	80.5	82.3	83.9	87.4	91.7	94.3	97.3	99.0
Structures	75.5	81.9	87.5	89.5	91.7	93.4	94.8	95.8	96.7
Total	76.8	80.7	83.0	84.6	88.0	91.9	94.4	97.1	98.7
Total prices paid	84.4	90.1	90.9	90.8	89.5	91.1	95.0	99.5	99.4
Excluding capital items	85.3	91.3	91.9	91.6	89.8	91.1	95.1	99.8	99.5
Excluding capital and overheads	79.0	82.9	85.1	87.4	88.2	90.4	93.6	97.7	98.0
Excluding seed, fodder and store and breeding stock	85.1	92.1	94.0	93.2	92.0	92.6	95.2	99.3	99.9

Continued

92

Indexes of prices paid by farmers in Australia *continued*

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	100.0	100.6	102.7	105.2	112.9	118.3	104.9	97.6	92.7
Fodder and feedstuffs	100.0	91.9	90.0	93.6	105.5	167.5	148.3	140.4	140.4
Store and breeding stock	100.0	100.9	105.0	126.0	145.3	125.9	144.0	159.5	163.2
Total	100.0	94.9	95.0	103.1	116.5	150.3	142.0	140.5	141.0
Fertiliser	100.0	102.7	99.8	106.4	104.3	104.5	103.6	108.8	111.6
Chemicals and medicines	100.0	100.4	101.6	103.3	105.6	108.0	110.0	111.9	114.6
Fuel and lubricants	100.0	104.1	148.6	144.1	128.3	127.0	144.3	167.2	208.7
Electricity	100.0	100.7	100.2	99.9	100.4	100.5	100.0	101.3	103.5
Maintenance									
Plant and equipment	100.0	102.3	106.1	112.0	115.2	118.4	121.4	124.6	128.6
Structures	100.0	102.8	104.6	109.3	112.5	115.7	119.1	122.7	126.4
Total	100.0	102.3	105.6	111.1	114.3	117.5	120.6	123.9	127.8
Contracts	100.0	104.3	107.9	114.4	117.7	120.9	123.8	126.8	130.8
Other materials and services	100.0	102.3	104.2	108.9	112.1	115.5	118.3	121.1	125.0
Total	100.0	99.9	104.2	109.3	113.1	125.6	125.3	128.7	134.3
Labor	100.0	103.7	107.1	110.1	113.3	117.9	121.6	125.7	129.7
Marketing									
Freight outwards	100.0	100.3	102.5	107.0	110.1	113.5	116.3	119.0	122.9
Selling expenses	100.0	102.8	105.2	109.3	112.5	116.0	118.8	121.6	125.5
Total	100.0	102.7	105.0	109.3	112.4	115.9	118.7	121.5	125.4
Overheads									
Interest paid	100.0	90.6	98.8	111.2	104.2	110.7	118.1	123.7	130.6
Rates and taxes	100.0	102.1	107.1	112.4	115.5	119.1	121.9	124.8	128.8
Insurance	100.0	102.8	105.1	109.8	118.6	124.5	128.8	131.9	135.1
Other overheads	100.0	103.1	104.1	108.7	111.9	115.4	118.1	121.0	124.8
Total	100.0	96.6	102.5	111.3	109.9	115.2	120.6	125.0	130.4
Capital items									
Plant and equipment	100.0	103.3	106.6	112.7	116.0	119.2	122.2	125.4	129.5
Structures	100.0	101.7	103.8	108.9	112.0	115.3	118.6	122.2	125.8
Total	100.0	103.0	106.1	111.9	115.2	118.3	121.3	124.4	128.4
Total prices paid	100.0	100.6	104.7	110.1	112.9	121.3	123.0	126.6	131.6
Excluding capital items	100.0	100.1	104.4	109.7	112.4	121.6	123.2	126.8	131.9
Excluding capital and overheads	100.0	100.9	104.8	109.4	113.0	123.0	123.7	127.2	132.3
Excluding seed, fodder and store and breeding stock	100.0	101.6	106.5	111.4	112.1	115.4	119.2	123.8	129.8

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

	Australian broadacre farms ^a %	Major trading banks	
		Overdrafts for small businesses ^b %	90 day bank bills %
1970-71		na	8.15
1971-72		na	5.75
1972-73		na	6.40
1973-74		na	8.80
1974-75		na	8.80
1975-76		10.25	10.45
1976-77		10.25	11.10
1977-78		10.25	10.80
1978-79	8.88	9.75	10.35
1979-80	9.24	10.25	13.85
1980-81	10.09	12.00	16.00
1981-82	11.48	14.50	18.75
1982-83	11.35	13.60	13.60
1983-84	12.02	13.60	12.80
1984-85	12.48	15.00	16.50
1985-86	15.45	17.40	14.80
1986-87	15.56	16.85	13.35
1987-88	13.86	15.25	13.15
1988-89	14.28	19.75	18.30
1989-90	16.67	18.70	15.05
1990-91	14.12	14.35	10.45
1991-92	12.02	10.90	6.40
1992-93	9.67	9.75	5.25
1993-94	9.29	9.30	5.45
1994-95	9.67	11.10	7.55
1995-96	10.43	11.25	7.57
1996-97	9.20	9.50	5.35
1997-98	8.30	7.70	5.32
1998-99	7.80	7.45	4.93
1999-00	8.00	9.15	6.23
2000-01	8.70	8.25	4.97
2001-02	7.91	8.35	5.07
2002-03	7.56	8.35	4.67
2003-04	8.01	8.85	5.49
2004-05	8.29	9.10	5.66
2005-06	na	9.35	5.96

^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.

Sources: Reserve Bank of Australia; ABARE.

94 Rural indebtedness to financial institutions

	All banks ^a	Other government agencies ^b	Pastoral and other finance companies	Other farm debt ^c	Total rural debt
	\$m	\$m	\$m	\$m	\$m
1980-81	3 161	801	325	na	na
1981-82	3 418	842	384	na	na
1982-83	3 980	1 049	385	na	na
1983-84	4 284	1 139	495	na	na
1984-85	5 254	1 230	601	na	na
1985-86	5 976	1 220	739	na	na
1986-87	5 705	1 515	1 345	na	na
1987-88	6 023	1 664	1 195	1 250	10 133
1988-89	7 430	1 803	1 503	1 350	12 085
1989-90	8 514	1 910	1 523	1 410	13 356
1990-91	8 666	1 877	1 205	1 436	13 184
1991-92	9 158	1 856	1 379	1 460	13 853
1992-93	10 049	1 879	1 041	1 580	14 549
1993-94	13 722	1 909	1 150	1 631	18 412
1994-95	14 485	1 872	1 368	1 690	19 415
1995-96	16 351	735	1 720	1 792	20 597
1996-97	17 466	698	2 065	1 760	21 988
1997-98	18 566	609	1 979	1 810	22 964
1998-99	20 085	661	1 093	1 852	23 692
1999-00	23 240	663	2 527	1 901	28 331
2000-01	25 174	701	2 639	1 920	30 434
2001-02	26 829	711	2 691	1 967	32 198
2002-03	28 957	739	1 628	2 017	33 341
2003-04	34 115	751	3 379	2 067	40 313
2004-05	39 261	820	3 112	na	na
2005-06	43 546	891	3 352	na	na

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

Sources: Reserve Bank of Australia, *Estimated Rural Debt to Specified Lenders*, Bulletin Statistical Table D9; ABARE.

95 Australian tractor sales, by type

	By power segment, by volume ^a				By power segment, by value			
	Under 30 kW	30–90 kW	Over 90 kW	Total	Under 30 kW	30–90 kW	Over 90 kW	Total
	no.	no.	no.	no.	\$m	\$m	\$m	\$m
1989-90	2 345	6 867	1 291	10 503	na	na	na	na
1990-91	1 756	4 259	668	6 683	na	na	na	na
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	1 048	4 806	1 335	7 189	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	24	337	420	781
1999-00	1 192	4 683	2 139	8 014	27	312	365	704
2000-01	1 251	4 395	1 816	7 462	29	306	333	669
2001-02	1 340	5 450	1 898	8 688	31	403	373	808
2002-03	1 365	5 733	2 103	9 201	30	418	415	863
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
2003 quarter								
March	342	1 149	636	2 127	7	85	128	220
June	383	1 680	795	2 858	8	125	160	293
September	385	1 328	395	2 108	8	96	71	175
December	591	1 716	519	2 826	12	122	100	234
2004 quarter								
March	523	1 244	868	2 635	11	92	173	276
June	466	1 692	873	3 031	10	124	172	305
September	473	1 572	606	2 651	10	114	117	241
December	661	1 919	611	3 191	14	139	116	269
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	na	na	na	na	na	na	na	na

^a Tractor power ratings refer to power takeoff, power in kilowatts. **na** Not available.
Source: Tractor and Machinery Association of Australia, Melbourne.

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Value of Australian trade in selected farm machinery

	Imports ^a				Exports			
	Tractors \$'000	Tillage machinery \$'000	Harvesting/ haymaking machinery \$'000	Seeding machinery \$'000	Tractors \$'000	Tillage machinery \$'000	Harvesting/ haymaking machinery \$'000	Seeding machinery \$'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	231 995	13 269	76 583	5 567	1 096	1 614	8 036	406
1989-90	268 895	22 090	96 195	5 913	1 301	1 107	12 059	886
1990-91	101 532	11 881	64 362	4 045	1 711	2 347	6 832	296
1991-92	91 061	8 631	43 394	4 002	890	2 446	11 295	841
1992-93	178 920	13 291	72 578	5 011	1 306	1 946	17 896	1 069
1993-94	245 154	15 220	118 227	6 835	1 112	2 704	31 541	782
1994-95	312 964	17 534	142 110	10 342	1 551	1 664	32 451	1 517
1995-96	366 038	25 448	170 307	14 505	1 524	2 896	43 088	1 504
1996-97	454 201	29 511	253 428	22 501	1 192	2 498	32 400	1 906
1997-98	512 157	30 278	243 655	30 525	995	1 391	33 946	1 269
1998-99	515 845	30 345	241 217	24 967	1 261	2 439	31 099	1 074
1999-00	416 136	30 127	229 839	24 214	1 223	2 666	29 748	402
2000-01	376 921	20 521	228 927	19 085	2 591	4 712	22 866	1 206
2001-02	477 563	25 789	161 079	29 197	4 416	2 211	44 996	1 144
2002-03	504 775	24 851	225 770	31 722	2 507	990	26 890	2 358
2003-04	596 319	31 176	249 504	33 546	1 512	773	21 512	1 393
2004-05	664 085	31 042	278 636	39 942	10 438	1 010	5 451	1 211
2005-06	567 629	26 697	236 230	28 691	11 203	1 660	2 879	529

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

farm inputs

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	220.00	462.00	404.00	402.00	378.33	104.3
2003	240.00	454.33	399.00	412.50	363.33	104.5
2004	227.33	466.67	395.00	387.00	377.33	103.6
2005	226.67	477.33	393.00	434.00	445.00	108.8
2006	235.90	532.40	425.00	445.10	478.17	111.6

^a Average price paid by Australian farmers at 30 June. ^b Bulk. ^c Bagged. ^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 Guide*; *Stock Journal, Farm Budget Guide*; ABARE.

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
1991-92	56.0	83.0	211.0	159.0	148.0	190.0	144.0
1992-93	61.0	57.0	185.0	172.0	135.0	191.0	161.0
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
2001 quarter							
March	88.2	54.1	324.1	295.5	541.3	379.6	211.1
June	91.5	37.7	311.6	293.0	415.1	288.0	219.1
September	91.3	33.3	289.0	243.7	353.3	213.0	218.5
December	88.2	64.8	319.8	294.9	413.9	296.6	211.2
2002 quarter							
March	90.7	47.9	316.3	284.3	253.1	213.4	217.1
June	85.3	62.9	292.1	261.5	258.5	206.8	204.2
September	85.8	66.6	324.2	294.0	265.2	243.4	205.3
December	84.2	72.6	306.1	272.9	322.6	240.6	201.6
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

^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.

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

farm inputs

99 Australian fertiliser consumption, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1986-87	871.8	332.5	135.7
1987-88	842.5	363.1	147.4
1988-89	790.5	392.6	160.8
1989-90	578.9	440.3	162.6
1990-91	580.0	439.4	145.4
1991-92	680.2	462.4	142.1
1992-93	801.4	488.0	145.2
1993-94	790.5	548.0	172.6
1994-95	950.0	564.5	201.2
1995-96	977.5	671.3	219.0
1996-97	1 016.0	824.6	196.5
1997-98	1 148.1	839.4	249.0
1998-99	1 058.7	940.7	223.0
1999-00	1 034.9	1 099.4	206.9
2000-01	1 096.6	1 002.0	202.6
2001-02	1 178.7	1 082.0	250.0
2002-03	1 064.1	986.4	259.5
2003-04	1 026.0	1 005.0	268.1
2004-05	1 185.0	1 105.6	297.9
2005-06	na	na	na

na Not available.

Sources: FAO, *World Fertilisers Year Book*, Rome; Incitec Ltd, Queensland; ABARE.

100 Volume of Australian imports of fertiliser, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1986-87	176.5	153.8	136.9
1987-88	146.3	154.2	165.5
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	637.1	703.4	207.5
2001-02	588.7	749.4	250.0
2002-03	545.1	645.6	259.5
2003-04	546.1	682.3	268.1
2004-05	706.3	795.9	297.9
2005-06	506.1	617.5	242.1

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; FAO, *World Fertilisers Year Book*, Rome; Incitec Ltd, Queensland; ABARE.

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

	Sulphur		Phosphate rock						Total
	Canada	Other	Christmas Island	China	Morocco	Nauru	Togo	Other	
	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	255	7	50	107	151	106	0	342	756
2000-01	435	46	0	293	145	119	0	266	823
2001-02	539	4	0	266	94	27	243	303	933
2002-03	559	36	0	200	48	16	244	202	711
2003-04	660	24	44	179	198	0	253	49	723
2004-05	568	24	38	210	381	0	163	5	797
2005-06	543	7	101	86	405	0	48	15	655

na Not available.

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

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Volume of Australian trade in manufactured fertiliser, by type

	Imports					Exports		
	Triple superphosphate kt	Diammonium phosphate kt	Monammonium phosphate kt	Other ammonium kt	Urea kt	Potassic fertiliser kt	Nitrogen fertiliser kt	Ammonium phosphates 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	60.8	0.8
1992-93	249.9	482.7	250.0	116.8	367.2	258.4	50.8	0.2
1993-94	204.2	501.2	237.5	133.7	526.5	301.0	76.6	0.4
1994-95	306.8	548.5	232.6	124.9	554.3	367.8	66.0	0.4
1995-96	269.3	715.4	291.5	154.0	594.9	366.0	40.0	0.3
1996-97	335.5	706.0	317.3	197.3	850.7	329.3	32.1	0.1
1997-98	351.8	757.1	391.6	118.1	953.3	435.0	43.2	0.2
1998-99	284.9	771.7	413.6	78.5	1 038.2	357.1	65.0	0.6
1999-00	240.4	570.2	580.0	74.9	1 399.8	353.3	75.2	23.0
2000-01	224.1	447.4	647.4	22.6	1 139.5	346.0	107.7	283.7
2001-02	280.2	271.0	659.2	75.5	1 295.8	416.9	101.3	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	58.2	1 156.6	447.0	134.8	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	144.2	1 056.2	403.7	186.6	312.3

na Not available.

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

103

Volume of Australian fertiliser imports, by state

	Triple superphosphate kt	Diammonium phosphate kt	Monammonium phosphate kt	Ammonium fertilisers		Urea kt	Potassic fertiliser kt	Phosphate rock kt
				Sulphate kt	Nitrate kt			
New South Wales								
2000-01	28.3	32.1	110.1	2.3	4.4	117.3	16.2	174.3
2001-02	32.8	24.5	108.6	5.4	14.4	136.4	19.8	204.4
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	0.5	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
Victoria								
2000-01	79.3	116.4	233.8	2.5	0.0	365.9	95.3	359.5
2001-02	107.1	72.6	269.0	7.4	0.4	371.0	128.9	369.0
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
Queensland								
2000-01	10.3	39.2	66.1	0.4	3.1	226.5	83.8	0.4
2001-02	6.8	5.8	60.1	0.9	27.8	255.3	98.5	1.0
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
Western Australia								
2000-01	67.0	125.7	182.6	6.6	2.8	294.4	110.6	161.1
2001-02	82.2	113.6	178.3	0.2	13.6	364.0	128.0	176.2
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
South Australia								
2000-01	19.8	129.2	54.9	0.1	0.4	121.7	7.8	0.0
2001-02	23.0	54.5	43.2	4.6	0.7	153.0	9.4	0.0
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	4.6	124.3	16.5	0.0
Tasmania								
2000-01	19.4	4.9	0.0	0.0	0.0	13.6	24.0	60.8
2001-02	28.3	0.0	0.0	0.0	0.0	16.0	21.4	138.6
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
Australia								
2000-01	224.1	447.4	647.4	12.0	10.7	1 139.5	346.0	822.7
2001-02	280.2	271.0	659.2	18.4	57.1	1 295.8	416.9	933.2
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	4.3	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	135.5	1 056.2	403.7	654.7

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

104 Value of Australian fertiliser imports, by state ^a

	Triple superphosphate \$m	Diammonium phosphate \$m	Monammonium phosphate \$m	<u>Ammonium fertilisers</u>		Urea \$m	Potassic fertiliser \$m	Phosphate rock \$m
				Sulphate \$m	Nitrate \$m			
New South Wales								
2000-01	7.39	9.92	32.14	0.54	1.07	29.08	4.37	13.84
2001-02	7.81	6.82	30.63	1.21	4.33	27.43	6.04	17.81
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
Victoria								
2000-01	20.32	34.01	68.81	0.55	0.01	90.10	25.57	25.42
2001-02	22.65	21.10	77.33	1.65	0.11	76.06	36.13	25.62
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	125.06	39.24	19.74
Queensland								
2000-01	2.61	11.09	19.25	0.10	0.87	54.88	22.06	0.05
2001-02	1.60	1.64	17.42	0.18	8.56	49.97	28.41	0.12
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
Western Australia								
2000-01	15.52	41.57	58.22	1.39	0.64	75.14	27.90	12.95
2001-02	18.70	33.33	53.05	0.03	3.86	70.98	34.29	13.52
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
South Australia								
2000-01	4.88	39.09	16.19	0.02	0.12	32.36	2.34	0.00
2001-02	5.23	16.36	12.25	1.03	0.20	31.29	2.76	0.00
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	1.36	40.13	4.88	0.00
Tasmania								
2000-01	2.62	1.21	0.00	0.00	0.00	3.58	5.90	5.40
2001-02	3.05	0.00	0.00	0.00	0.02	3.06	5.64	10.86
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
Australia								
2000-01	53.34	136.88	194.60	2.59	2.72	285.14	88.15	61.82
2001-02	59.05	79.24	190.68	4.10	17.07	258.79	113.27	71.67
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	51.02	339.10	99.34	42.11

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

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Volume of Australian fertiliser imports, by quarter

	Triple superphosphate kt	Diammonium phosphate kt	Monammonium phosphate kt	Ammonium fertilisers		Urea kt	Potassic fertiliser kt	Phosphate rock kt
				Sulphate kt	Nitrate kt			
1999 quarter								
March	112.6	369.4	203.1	13.6	4.6	296.5	87.4	154.1
June	62.6	208.1	100.8	5.8	13.4	386.4	115.7	81.2
September	33.0	41.9	32.1	0.3	18.5	286.3	86.8	182.9
December	38.4	95.1	154.9	0.5	32.6	226.7	86.3	255.6
2000 quarter								
March	121.4	258.0	236.2	8.5	7.3	317.5	107.5	193.4
June	47.6	175.2	156.8	0.5	6.7	569.2	72.7	123.6
September	8.9	38.5	53.2	0.4	1.1	316.2	84.4	135.6
December	54.4	38.5	91.8	0.3	4.1	122.4	70.7	311.1
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	18.9	447.1	108.8	197.6
September	2.3	0.0	50.2	2.2	21.8	229.0	81.0	122.9

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

farm inputs

106 Value of Australian fertiliser imports, by quarter ^a

	Triple superphosphate \$m	Diammonium phosphate \$m	Monammonium phosphate \$m	<u>Ammonium fertilisers</u>		Urea \$m	Potassic fertiliser \$m	Phosphate rock \$m
				Sulphate \$m	Nitrate \$m			
1999 quarter								
March	29.5	119.9	65.8	2.6	1.2	42.6	20.2	10.5
June	16.1	64.0	30.6	1.4	3.5	56.8	28.1	4.7
September	7.4	11.8	9.5	0.1	4.3	37.7	18.8	13.1
December	7.1	23.4	38.1	0.1	7.8	30.7	19.9	18.3
2000 quarter								
March	21.5	62.0	55.9	1.5	1.6	52.5	24.3	13.5
June	10.0	43.5	38.5	0.1	1.5	111.6	18.9	9.1
September	1.9	9.5	15.0	0.1	0.3	70.0	21.1	9.7
December	13.5	12.8	29.2	0.1	0.9	31.3	18.6	23.5
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	148.6	28.8	13.5
September	1.5	0.0	18.7	0.5	7.9	66.3	23.6	8.2

^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 ^a \$'000	Fungicides/ plant growth regulants ^a \$'000	Insecticides ^a \$'000	Animal health products ^a \$'000	Index of prices paid for chemicals ^c
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

^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.

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

108 Australian farm fuel prices

	Petrol		Off-road diesel c c/L	Index of prices paid for fuel d
	Lead replacement a c/L	Unleaded b 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	100.26	98.20	53.36	144.1
2001-02	93.11	89.47	46.80	128.3
2002-03	94.97	93.77	44.13	127.0
2003-04	109.54	94.78	55.12	144.3
2004-05	na	106.07	65.51	167.2
2005-06	na	126.89	84.15	208.7

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 farm rebates and subsidies. c Average price paid by Australian farmers. Net petrol price including farm rebates and subsidies. d Base: 1997-98 = 100. na Not available.

Sources; Ampol; Australian Taxation Office; Caltex Australia; Fueltrac; Shell Australia; ABARE.

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Persons employed in agriculture, forestry and fisheries ^a

	1990-91 '000	1991-92 '000	1992-93 '000	1993-94 '000	1994-95 '000	1995-96 '000	1996-97 '000	1997-98 '000
Agriculture								
Grains, sheep and beef cattle	229.5	205.8	211.5	217.3	200.5	201.7	203.5	202.7
Horticulture and fruit	89.0	93.3	82.8	80.3	77.4	93.0	87.1	91.0
Other crops	13.0	13.5	12.5	11.5	17.0	16.9	18.3	20.6
Dairy cattle	24.0	21.5	22.0	22.8	34.2	30.1	39.9	38.2
Poultry	7.8	10.3	9.3	10.5	10.1	11.8	10.2	9.4
Other livestock	23.3	22.8	21.8	21.3	17.4	16.4	16.1	16.5
Agriculture – other	na	na	na	na	na	na	na	na
Total	386.6	367.2	359.9	363.3	356.6	369.9	375.0	378.2
Services to agriculture ^b	22.1	16.0	17.5	20.3	19.5	18.6	23.0	25.6
Forestry and logging	10.9	11.3	11.0	11.3	12.4	11.4	10.9	14.0
Commercial fishing	15.4	13.5	15.8	13.8	14.8	18.7	13.0	13.8
Total	434.9	408.1	404.1	408.7	403.4	418.5	421.9	431.6
	1998-99 '000	1999-00 '000	2000-01 '000	2001-02 '000	2002-03 '000	2003-04 '000	2004-05 '000	2005-06 '000
Agriculture								
Grains, sheep and beef cattle	199.0	211.0	207.7	214.3	166.1	164.9	133.3	139.8
Horticulture and fruit	91.7	98.9	92.5	97.3	93.1	94.8	81.7	82.4
Other crops	19.9	19.3	15.6	17.2	13.1	10.8	15.9	9.2
Dairy cattle	32.6	34.6	29.1	31.0	25.8	19.8	21.6	22.9
Poultry	8.3	8.8	8.6	9.3	11.0	9.7	9.4	9.1
Other livestock	14.3	12.7	9.4	12.3	12.1	10.0	10.3	11.1
Agriculture – other	na	na	10.4	5.0	4.5	10.4	40.2	30.1
Total	365.8	385.2	373.3	386.5	325.6	320.4	312.3	304.5
Services to agriculture ^b	27.9	30.4	28.2	25.8	24.1	25.3	24.5	27.1
Forestry and logging	14.0	8.7	13.5	13.2	9.7	12.1	12.2	11.3
Commercial fishing	14.0	15.6	19.4	18.4	17.4	15.7	13.9	11.7
Total	421.7	439.9	435.2	444.3	376.8	373.5	362.9	354.6

^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	na	na	na	4.5
1971-72	- 1.4	na	5.6	10.2	6.9
1972-73	1.9	na	9.3	9.0	6.1
1973-74	6.3	na	20.0	16.2	12.9
1974-75	18.8	na	37.3	26.6	16.8
1975-76	14.9	na	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	4.4	4.7	6.2	9.4
1987-88	3.7	2.9	3.9	6.1	7.3
1988-89	7.0	11.0	7.3	6.8	7.3
1989-90	6.1	6.5	7.4	6.6	8.0
1990-91	6.7	1.4	4.8	5.9	5.3
1991-92	4.1	1.0	4.6	2.9	1.9
1992-93	3.1	4.2	3.6	2.0	1.0
1993-94	3.0	0.4	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	1.8	3.1	3.2	0.0
1998-99	3.6	5.3	3.6	2.4	1.2
1999-00	2.9	1.8	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

^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; DEVR, *Pastoral Industry Award 1998*, AW792378; DEVR, *Agriculture, Forestry and Fishing Industry Sector - Minimum Wage Order - Victoria 1997*, AW767376; ABARE.



Summary of Australian fisheries statistics

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06 p
Prawns									
Production as	kt	31.2	26.8	30.1	29.4	26.4	27.5	23.6	23.8
Value of production	\$m	416.4	414.6	453.3	428.7	364.0	357.8	304.5	306.0
Exports b	kt	12.0	11.6	12.1	11.9	9.5	9.4	10.3	8.7
Value of exports	\$m	224.3	243.8	291.0	262.8	208.2	160.6	163.1	133.9
Imports b	kt	15.8	15.7	15.6	17.6	18.1	24.4	29.9	30.4
Value of imports	\$m	202.6	192.9	233.5	221.4	220.2	227.6	257.8	256.3
Rock lobster									
Production ac	kt	19.4	20.5	16.8	14.3	17.1	19.7	18.1	15.7
Value of production c	\$m	438.5	545.6	481.0	501.8	460.7	405.2	415.0	429.1
Exports b	kt	14.4	15.5	13.3	10.9	11.5	13.5	12.6	11.9
Value of exports	\$m	451.4	577.7	532.6	492.6	463.1	426.8	439.6	489.4
Abalone									
Production as	kt	5.6	5.6	5.7	5.9	5.2	5.8	5.9	5.5
Value of production	\$m	172.9	220.7	276.4	247.4	216.2	196.3	229.6	229.3
Exports b	kt	3.4	3.8	3.5	4.0	4.2	4.9	4.0	3.7
Value of exports	\$m	184.6	223.4	249.3	263.1	216.1	237.7	263.1	245.6
Scallops									
Production a	kt	11.3	12.0	9.2	5.6	9.6	9.3	15.4	11.3
Value of production	\$m	37.7	43.2	39.5	22.8	34.6	24.6	45.6	32.9
Exports b	kt	1.6	1.7	2.1	1.5	1.2	1.5	1.2	1.5
Value of exports	\$m	33.2	42.0	53.4	34.4	28.7	34.9	32.6	38.8
Tuna									
Production ads	kt	16.7	16.2	16.1	15.9	13.4	14.7	11.3	12.3
Value of production d	\$m	221.5	256.7	328.8	322.9	317.0	279.5	172.5	177.7
Exports b	kt	8.5	12.6	14.8	13.9	12.6	12.8	10.9	11.7
Value of exports	\$m	120.4	259.3	331.9	325.8	321.0	273.5	165.7	179.4
Imports b	kt	21.8	18.2	23.6	25.3	33.9	47.4	37.5	36.5
Value of imports	\$m	82.0	70.6	82.8	104.9	123.5	109.8	107.7	141.3
Other fin fish									
Production as	kt	126.5	113.5	122.0	137.3	151.7	164.7	181.6	161.0
Value of production	\$m	442.7	454.3	489.7	546.3	561.0	553.7	532.3	571.5
Exports b	kt	17.7	15.0	13.3	17.5	17.4	13.2	15.0	11.6
Value of exports	\$m	154.4	133.7	146.4	176.0	164.2	136.5	138.7	115.3
Imports b	kt	75.9	84.0	85.1	82.3	89.8	91.2	93.3	92.7
Value of imports	\$m	360.3	392.7	426.4	431.8	467.0	435.1	439.6	460.7
All fisheries products									
Production s	kt	236.7	221.9	231.3	237.1	253.7	275.5	287.4	na
Value of production	\$m	2 109.8	2 344.0	2 438.8	2 429.7	2 284.4	2 168.1	2 048.7	2 102.2
Edible exports	kt	61.5	63.9	64.7	64.3	60.2	58.5	57.3	52.3
Value of edible exports	\$m	1 223.8	1 536.2	1 716.8	1 661.7	1 484.9	1 319.3	1 236.0	1 237.3
Value of non-edible exports	\$m	287.6	451.8	451.9	438.5	359.6	332.6	305.7	311.3
Edible imports	kt	132.6	139.9	144.4	146.3	164.7	188.0	186.3	188.5
Value of edible imports	\$m	744.8	780.6	870.3	889.2	950.2	904.9	959.3	1 028.5
Value of non-edible imports	\$m	135.2	310.5	281.6	310.9	251.6	201.5	212.6	236.1

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 fisheries products

	Unit	Prawns	Rock lobster ^a	Abalone	Scallops	Oysters	Tuna	Other fin fish	All fisheries products ^b
Quantity ^c									
1984-85	kt	20.5	14.1	na	na	7.5	13.0	73.0	na
1985-86	kt	18.5	11.8	na	na	6.8	13.5	76.0	na
1986-87 ^s	kt	21.0	12.0	na	na	7.1	12.0	85.0	na
1987-88 ^s	kt	23.0	16.0	na	na	8.0	11.0	94.0	na
1988-89 ^s	kt	28.0	18.0	0.0	0.0	8.0	9.0	98.0	168.0
1989-90 ^s	kt	23.3	15.7	0.0	0.0	7.5	8.2 ^e	120.9	182.8
1990-91 ^s	kt	29.1	14.7	0.0	0.0	8.1	11.7 ^f	145.4	216.3
1991-92 ^s	kt	24.5	18.5	0.0	0.0	8.2	13.2 ^f	139.8	212.9
1992-93 ^s	kt	25.1	18.4	3.4	33.0	8.6	10.2 ^f	123.6	236.9
1993-94 ^s	kt	23.2	16.8	3.3	23.7	8.7	7.7 ^f	121.9	223.9
1994-95 ^s	kt	28.0	16.4	3.8	15.8	9.4	8.7 ^f	127.5	232.2
1995-96 ^s	kt	29.4	15.7	3.9	15.3	10.1	9.2 ^f	123.5	228.6
1996-97 ^s	kt	27.7	15.8	3.8	8.8	10.1	13.0 ^f	128.5	222.8
1997-98 ^s	kt	29.6	16.6	3.8	10.4	10.7	11.9 ^f	134.3	232.3
1998-99 ^s	kt	31.2	19.4	5.6	11.3	8.7	16.7 ^f	126.5	236.7
1999-00 ^s	kt	26.8	20.5	5.6	12.0	9.7	16.2 ^f	113.5	221.9
2000-01 ^s	kt	30.1	16.8	5.7	9.2	9.6	16.1 ^f	122.0	231.3
2001-02 ^s	kt	29.4	14.3	5.9	5.6	10.2	15.9 ^f	137.3	237.1
2002-03 ^s	kt	26.4	17.1	5.2	9.6	10.5	13.4 ^f	151.7	253.7
2003-04 ^s	kt	27.5	19.7	5.8	9.3	13.7	14.7 ^f	164.7	275.5
2004-05 ^s	kt	23.6	18.1	5.9	15.4	11.8	11.3 ^f	181.6	287.4
2005-06 ^{ps}	kt	23.8	15.7	5.5	11.3	12.0	12.3 ^f	161.0	na
Value									
1984-85 ^s	\$m	164.0	172.0	35.0	20.0	29.0	14.0	88.0	na
1985-86 ^s	\$m	190.0	140.0	60.0	24.0	30.0	17.0	102.0	na
1986-87 ^s	\$m	216.0	186.0	84.0	25.0	31.0	23.0	137.0	na
1987-88 ^s	\$m	246.0	252.0	96.0	22.0	36.0	19.0	157.0	na
1988-89 ^s	\$m	274.0	280.0	86.0	21.0	38.0	19.0	215.0	1 022.3 ^h
1989-90 ^s	\$m	226.0	245.0	90.0	25.0	36.0	66.0 ^e	278.0	1 093.0 ^h
1990-91 ^s	\$m	262.9	287.5	92.1	42.3	43.2	66.5 ^f	269.8	1 223.1 ^h
1991-92 ^s	\$m	244.1	369.1	94.6	82.8	44.3	76.2 ^f	301.3	1 376.2 ^h
1992-93 ^s	\$m	291.3	348.8	127.5	94.4	41.2	116.2 ^f	320.7	1 517.4 ^h
1993-94 ^s	\$m	320.6	431.7	178.4	82.1	42.4	107.8 ^f	322.5	1 719.0 ^h
1994-95 ^s	\$m	368.0	452.5	144.7	64.2	47.6	129.8 ^f	336.8	1 844.7 ^h
1995-96 ^s	\$m	368.4	374.6	142.4	66.7	51.5	85.0 ^f	352.2	1 724.8 ^h
1996-97 ^s	\$m	344.3	413.3	152.5	36.7	52.0	96.0 ^f	378.3	1 731.3 ^h
1997-98 ^s	\$m	385.3	377.1	182.1	39.8	47.0	130.8 ^f	395.6	1 835.7 ^h
1998-99 ^s	\$m	416.4	438.5	172.9	37.7	45.2	221.5 ^f	442.7	2 109.8 ^h
1999-00 ^s	\$m	414.6	545.6	220.7	43.2	53.3	256.7 ^f	454.3	2 344.0 ^h
2000-01 ^s	\$m	453.3	481.0	276.4	39.5	55.1	328.8 ^f	489.7	2 438.8
2001-02 ^s	\$m	428.7	501.8	247.4	22.8	56.9	322.9 ^f	546.3	2 429.7
2002-03 ^s	\$m	364.0	460.7	216.2	34.6	62.1	317.0 ^f	561.0	2 284.4
2003-04 ^s	\$m	357.8	405.2	196.3	24.6	77.2	279.5 ^f	553.7	2 168.1
2004-05 ^s	\$m	304.5	415.0	229.6	45.6	73.3	172.5 ^f	532.3	2 048.7
2005-06 ^{ps}	\$m	306.0	429.1	229.3	32.9	74.0	177.7 ^f	571.5	2 102.2

^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 Excludes production in Victoria and Queensland. ^e Includes an estimate of tuna production from joint venture agreements. ^f Excludes Commonwealth southern bluefin tuna as an input to South Australian farms. ^g Excludes the value of Queensland production. ^h 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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^a								
Headless	t	926	1 005	785	580	307	437	150
Hong Kong, China	t	47	80	14	14	3	14	0
Japan	t	657	654	539	428	179	150	121
Spain	t	27	0	28	0	0	0	0
United States	t	33	80	98	10	1	3	3
Other	t	163	191	106	127	123	270	26
Whole	t	10 096	10 789	10 870	8 739	8 852	9 623	8 409
China	t	1 662	1 231	1 414	780	1 151	1 540	1 107
Chinese Taipei	t	239	170	254	219	184	74	40
Hong Kong, China	t	1 140	1 899	1 777	1 388	925	659	401
Italy	t	72	42	24	52	13	42	382
Japan	t	4 614	4 085	4 194	3 815	3 063	3 466	2 993
Malaysia	t	176	131	180	214	274	75	74
New Zealand	t	139	190	253	237	175	189	151
Spain	t	1 157	1 584	915	1 223	1 697	1 972	1 434
Thailand	t	203	673	1 076	90	124	198	376
United States	t	50	138	45	13	54	29	16
Other	t	644	646	739	707	1 191	1 380	1 436
Other	t	608	330	270	213	237	242	185
Chinese Taipei	t	54	1	12	8	20	21	0
Japan	t	330	65	49	15	9	12	1
Singapore	t	42	22	19	30	25	13	19
United States	t	3	28	11	0	1	1	0
Other	t	179	214	178	161	182	194	165
Total	t	11 630	12 124	11 925	9 532	9 396	10 302	8 744
Value								
Headless	\$'000	20 540	25 162	18 607	12 002	5 353	6 639	2 835
Hong Kong, China	\$'000	704	1 338	310	318	34	387	0
Japan	\$'000	16 443	18 200	14 227	9 613	3 917	3 599	2 490
Spain	\$'000	367	0	375	0	0	0	0
United States	\$'000	920	2 048	2 445	298	33	69	57
Other	\$'000	2 106	3 576	1 249	1 773	1 369	2 583	289
Whole	\$'000	209 386	258 481	239 367	192 567	151 488	153 239	128 872
China	\$'000	25 777	20 946	23 262	14 914	15 777	19 601	11 905
Chinese Taipei	\$'000	5 985	4 694	5 440	5 153	3 997	1 483	828
Hong Kong, China	\$'000	18 655	36 377	32 940	26 874	15 985	9 593	5 758
Italy	\$'000	1 134	896	430	1 074	241	956	7 290
Japan	\$'000	123 510	133 574	129 283	105 331	62 751	68 784	57 151
Malaysia	\$'000	2 423	2 172	3 112	3 890	3 723	567	676
New Zealand	\$'000	1 745	2 604	3 223	3 365	2 313	2 305	1 604
Spain	\$'000	15 928	27 703	15 549	17 214	23 069	26 524	18 972
Thailand	\$'000	2 484	11 982	15 066	1 102	1 442	2 290	3 817
United States	\$'000	580	4 290	906	327	1 189	679	297
Other	\$'000	11 165	13 243	10 154	13 323	21 000	20 457	20 572
Other	\$'000	13 863	7 405	4 853	3 676	3 762	3 225	2 216
Chinese Taipei	\$'000	1 428	32	309	169	372	453	0
Japan	\$'000	9 262	3 505	1 459	345	181	241	24
Singapore	\$'000	730	481	379	556	523	169	274
United States	\$'000	86	681	372	0	27	16	3
Other	\$'000	2 357	2 705	2 333	2 606	2 660	2 347	1 916
Total	\$'000	243 789	291 048	262 827	208 245	160 603	163 104	133 923

^a Product weight.

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

114 Australian imports of prawns, by products type and source

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^a								
Fresh, chilled or frozen	t	10 423	10 188	11 972	13 086	18 860	22 590	23 111
China	t	81	160	381	544	3 894	4 034	4 465
Chinese Taipei	t	34	118	42	41	102	92	283
India	t	873	1 652	2 571	2 763	2 920	3 096	2 459
Indonesia	t	557	1 198	1 526	1 629	1 617	1 669	1 094
Malaysia	t	768	660	587	395	190	183	159
Myanmar	t	422	596	716	644	564	528	572
New Caledonia	t	306	186	184	123	104	189	100
Papua New Guinea	t	142	151	133	161	196	59	11
Singapore	t	163	232	91	141	211	101	157
Thailand	t	5 769	3 823	3 677	3 597	4 911	5 741	6 106
Viet Nam	t	1 081	1 256	1 840	2 802	3 898	6 260	6 855
Other	t	228	155	223	245	253	637	851
Canned	t	5 133	5 217	5 432	5 032	5 584	7 247	7 239
Malaysia	t	1 254	1 364	1 356	1 202	1 089	1 244	809
Thailand	t	3 126	3 082	3 097	3 064	3 328	4 035	3 706
Viet Nam	t	90	74	94	167	319	437	591
Other	t	662	696	885	599	848	1 530	2 133
Other	t	177	168	155	29	5	18	54
China	t	2	3	3	0	0	16	33
Malaysia	t	19	69	65	0	2	0	2
Thailand	t	77	66	85	26	1	0	17
Viet Nam	t	45	24	2	0	0	0	1
Other	t	35	6	1	2	1	2	1
Total	t	15 733	15 572	17 559	18 147	24 448	29 855	30 404
Value								
Fresh, chilled or frozen	\$'000	145 517	173 238	165 095	174 484	183 537	201 187	200 925
China	\$'000	985	3 468	3 362	5 704	28 476	26 497	29 417
Chinese Taipei	\$'000	730	2 601	626	714	1 297	1 054	2 884
India	\$'000	12 222	32 505	38 963	39 759	34 872	32 149	25 451
Indonesia	\$'000	6 926	15 776	17 934	17 501	13 423	10 820	8 508
Malaysia	\$'000	7 336	7 019	6 321	3 889	1 783	1 826	1 761
Myanmar	\$'000	4 615	7 405	8 183	6 451	4 867	4 599	4 816
New Caledonia	\$'000	4 721	3 164	3 128	2 044	1 571	2 370	1 256
Papua New Guinea	\$'000	975	1 320	1 139	1 357	1 307	406	73
Singapore	\$'000	1 938	2 591	1 325	1 608	2 083	1 063	1 474
Thailand	\$'000	86 645	70 400	51 886	47 027	44 250	45 556	45 968
Viet Nam	\$'000	15 085	24 825	29 554	45 441	47 333	69 650	72 307
Other	\$'000	3 340	2 165	2 674	2 990	2 275	5 196	7 010
Canned	\$'000	45 373	57 917	54 553	45 386	44 020	56 491	54 961
Malaysia	\$'000	9 676	12 662	12 030	10 082	8 072	8 215	5 216
Thailand	\$'000	30 995	37 910	33 392	29 341	27 035	34 433	30 858
Vietnam	\$'000	364	515	908	1 558	2 726	3 854	5 072
Other	\$'000	4 339	6 830	8 223	4 404	6 187	9 989	13 815
Other	\$'000	2 026	2 369	1 782	365	38	116	425
China	\$'000	22	10	34	1	4	92	210
Malaysia	\$'000	115	852	609	3	12	1	9
Thailand	\$'000	1 200	1 033	1 055	334	12	0	200
Viet Nam	\$'000	352	309	17	0	6	0	2
Other	\$'000	337	165	66	28	4	24	4
Total	\$'000	192 916	233 524	221 430	220 236	227 595	257 794	256 311

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^a								
Tails ^b	t	1 693	1 037	870	1 698	2 062	1 849	1 612
Chinese Taipei	t	82	18	5	32	0	9	0
Hong Kong, China	t	10	10	3	16	10	18	12
Japan	t	234	51	18	57	141	38	42
United States	t	1 331	915	831	1 476	1 757	1 748	1 467
Other	t	36	42	14	118	153	36	91
Whole ^c	t	13 348	11 882	9 697	9 468	10 889	10 184	9 914
Chinese Taipei	t	3 900	3 182	2 094	1 557	1 369	1 194	824
Hong Kong, China	t	4 691	4 658	3 983	3 603	4 750	4 323	5 449
Japan	t	3 857	3 306	2 585	2 940	2 477	2 096	1 785
Singapore	t	334	218	317	283	306	214	162
United States	t	113	215	234	53	60	57	43
Other	t	454	303	484	1 032	1 927	2 300	1 650
Other	t	448	426	374	368	501	603	412
France	t	51	16	6	20	12	66	17
Hong Kong, China	t	34	59	59	8	18	8	30
Japan	t	315	254	300	296	414	395	284
United States	t	11	26	3	18	47	48	22
Other	t	37	71	6	26	10	87	59
Total	t	15 490	13 345	10 942	11 535	13 453	12 636	11 938
Value								
Tails ^b	\$'000	95 289	60 309	65 362	112 922	102 506	100 572	97 335
Chinese Taipei	\$'000	2 611	654	327	1 244	0	233	0
Hong Kong, China	\$'000	469	600	191	809	475	594	593
Japan	\$'000	8 861	4 138	1 742	3 101	5 894	2 031	2 303
United States	\$'000	81 393	53 243	61 932	102 178	90 023	96 050	88 585
Other	\$'000	1 955	1 675	1 171	5 590	6 114	1 665	5 854
Whole ^c	\$'000	472 136	460 785	420 391	343 797	318 499	329 612	387 448
Chinese Taipei	\$'000	131 100	107 896	82 321	51 730	35 547	36 919	29 842
Hong Kong, China	\$'000	167 977	195 809	189 134	144 334	156 743	147 902	227 490
Japan	\$'000	141 531	124 399	105 549	102 735	68 392	65 147	66 251
Singapore	\$'000	10 556	7 297	12 863	10 448	7 620	6 293	5 697
United States	\$'000	5 045	13 395	10 379	1 868	2 240	2 210	1 684
Other	\$'000	15 928	11 988	20 145	32 681	47 957	71 141	56 484
Other	\$'000	10 231	11 554	6 855	6 388	5 829	9 391	4 568
France	\$'000	1 694	673	232	221	450	1 775	775
Hong Kong, China	\$'000	1 418	2 124	2 409	279	285	67	271
Japan	\$'000	5 377	6 176	3 762	4 164	3 173	3 611	1 248
United States	\$'000	370	1 006	266	762	1 645	1 497	531
Other	\$'000	1 372	1 575	185	962	275	2 442	1 743
Total	\$'000	577 657	532 648	492 608	463 106	426 833	439 575	489 351

^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 lobster, by source

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^a								
Cuba	t	41	38	14	27	0	31	64
Malaysia	t	29	18	15	25	41	14	17
New Zealand	t	3	0	4	6	6	1	0
Papua New Guinea	t	55	71	73	73	89	79	79
Thailand	t	185	178	130	194	151	118	215
United States	t	165	36	30	82	0	17	0
Viet Nam	t	102	50	4	19	3	3	3
Other	t	75	30	51	57	155	207	190
Total	t	654	421	320	484	444	469	568
Value								
Cuba	\$'000	701	840	323	723	0	576	1 273
Malaysia	\$'000	315	254	211	303	437	134	185
New Zealand	\$'000	65	6	115	192	199	32	1
Papua New Guinea	\$'000	2 198	3 043	3 365	3 373	2 151	2 816	2 590
Thailand	\$'000	2 323	2 927	2 281	2 826	2 043	1 514	3 197
United States	\$'000	3 616	834	562	2 364	0	359	0
Viet Nam	\$'000	1 293	883	71	327	58	35	41
Other	\$'000	622	629	1 131	953	2 201	2 666	2 962
Total	\$'000	11 134	9 416	8 058	11 060	7 088	8 132	10 249

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Exports								
Quantity ^a								
Fresh, chilled or frozen	t	1 570	1 505	2 007	1 701	2 119	2 032	2 133
China	t	19	27	51	30	20	296	609
Chinese Taipei	t	183	171	190	159	137	85	63
Hong Kong, China	t	836	732	1 210	1 129	1 551	1 229	1 019
Japan	t	494	531	507	351	377	394	404
United States	t	10	8	9	7	8	5	6
Other	t	28	36	40	24	26	23	31
Prepared or preserved	t	2 239	2 038	2 003	2 493	2 791	1 972	1 532
Chinese Taipei	t	666	660	396	207	428	227	153
Hong Kong, China	t	701	551	606	901	1 222	949	609
Japan	t	434	441	392	584	596	402	404
Singapore	t	363	252	300	326	344	311	249
United States	t	44	39	51	118	91	31	37
Other	t	30	97	258	356	110	52	80
Total	t	3 808	3 543	4 010	4 193	4 910	4 004	3 665
Value								
Fresh, chilled or frozen	\$'000	94 304	103 931	122 987	109 277	117 482	123 856	131 533
China	\$'000	885	2 398	5 613	3 141	1 532	16 033	34 493
Chinese Taipei	\$'000	8 816	9 781	9 368	8 536	6 088	4 096	3 153
Hong Kong, China	\$'000	51 391	53 000	70 354	71 567	87 086	76 529	66 780
Japan	\$'000	30 296	35 370	33 160	22 574	19 985	24 250	23 766
United States	\$'000	571	834	774	708	746	502	617
Other	\$'000	2 345	2 547	3 719	2 751	2 045	2 447	2 724
Prepared or preserved	\$'000	129 112	145 346	140 141	106 838	120 198	139 294	114 094
Chinese Taipei	\$'000	34 766	32 209	26 145	8 403	16 366	12 806	10 553
Hong Kong, China	\$'000	38 773	45 135	34 928	29 309	53 210	70 010	46 392
Japan	\$'000	29 283	36 888	30 278	29 629	25 309	27 462	29 876
Singapore	\$'000	21 105	20 018	24 637	20 088	16 744	22 475	18 768
United States	\$'000	3 051	3 958	4 300	3 231	3 391	2 381	3 056
Other	\$'000	2 134	7 138	19 854	16 177	5 178	4 160	5 449
Total	\$'000	223 415	249 277	263 128	216 115	237 680	263 150	245 627
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	15	6	14	10	10	6	14
Japan	t	3	0	0	0	3	0	0
New Zealand	t	1	0	1	0	0	0	0
Philippines	t	0	0	0	1	0	0	2
Other	t	12	6	13	8	8	6	12
Total	t	15	6	14	10	10	6	14
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	829	125	139	540	475	149	252
Japan	\$'000	167	10	0	1	316	0	0
New Zealand	\$'000	79	0	26	6	0	3	0
Philippines	\$'000	0	0	0	50	0	0	9
Other	\$'000	582	115	113	482	160	146	244
Total	\$'000	829	125	139	540	475	149	252

^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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Exports									
Quantity ^a									
Fresh, chilled or frozen	t	1 530	1 629	2 058	1 403	1 130	1 460	1 208	1 484
China	t	44	157	472	1	0	0	0	28
France	t	103	46	0	0	0	0	156	305
Hong Kong, China	t	933	1 017	1 181	971	769	1 096	727	764
Malaysia	t	85	90	101	103	72	54	33	61
Singapore	t	268	266	277	305	246	249	181	260
United States	t	15	0	0	0	2	1	1	1
Other	t	82	53	26	23	43	58	110	65
Other	t	40	26	87	85	35	4	0	0
Hong Kong, China	t	38	15	30	84	35	3	0	0
Other	t	1	11	57	1	0	1	0	0
Total	t	1 569	1 655	2 145	1 488	1 165	1 464	1 209	1 485
Value									
Fresh, chilled or frozen	\$'000	32 233	40 641	49 501	31 639	26 639	34 789	32 560	38 748
China	\$'000	1 008	1 032	3 871	11	5	0	0	769
France	\$'000	2 039	795	0	0	0	0	2 704	6 462
Hong Kong, China	\$'000	20 133	28 688	33 506	21 270	18 732	26 109	21 971	21 241
Malaysia	\$'000	1 604	2 261	2 994	2 471	1 611	1 287	949	1 563
Singapore	\$'000	5 424	6 608	8 317	7 389	5 392	5 715	5 232	7 314
United States	\$'000	290	0	0	0	63	74	38	19
Other	\$'000	1 735	1 257	814	498	836	1 603	1 666	1 380
Other	\$'000	1 002	1 371	3 904	2 794	2 048	126	6	25
Hong Kong, China	\$'000	932	1 009	2 694	2 782	2 036	93	5	24
Other	\$'000	70	362	1 210	12	11	34	0	1
Total	\$'000	33 236	42 012	53 405	34 433	28 686	34 916	32 566	38 773
Imports									
Quantity									
Fresh, chilled or frozen									
China	t	248	141	260	454	654	928	1 398	1 355
Indonesia	t	0	23	98	39	18	14	8	19
Japan	t	481	835	826	664	937	664	391	523
New Zealand	t	23	43	33	29	13	1	1	1
Peru	t	0	74	68	0	12	37	0	6
Thailand	t	329	366	396	360	338	408	310	257
Viet Nam	t	25	50	96	48	7	7	20	43
Other	t	51	135	78	24	46	44	169	217
Total	t	1 157	1 665	1 856	1 617	2 024	2 104	2 297	2 421
Value									
Fresh, chilled or frozen									
China	\$'000	3 037	2 034	4 179	6 137	6 618	8 823	15 250	16 201
Indonesia	\$'000	0	153	798	424	144	100	41	145
Japan	\$'000	7 043	14 698	13 609	9 058	12 033	7 557	6 027	7 780
New Zealand	\$'000	343	684	614	566	267	20	7	5
Peru	\$'000	0	970	785	0	140	316	1	41
Thailand	\$'000	4 271	5 592	6 274	4 863	4 114	4 547	3 490	2 860
Viet Nam	\$'000	167	308	603	564	64	49	144	401
Other	\$'000	1 353	1 489	1 526	605	860	614	2 497	3 323
Total	\$'000	16 215	25 928	28 388	22 219	24 241	22 027	27 458	30 756

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^b								
Live fish	t	na	na	na	na	na	na	na
Whole	t	18 300	19 634	24 187	24 096	20 434	20 406	18 534
China	t	2 222	1 239	1 761	2 101	1 369	1 734	672
Chinese Taipei	t	367	182	151	93	77	35	9
Germany	t	144	165	76	20	246	101	41
Japan	t	10 776	12 699	15 555	14 215	13 508	11 162	11 134
Saudi Arabia	t	106	60	135	120	119	134	75
Singapore	t	342	750	581	175	98	257	99
Thailand	t	986	1 241	1 308	1 087	826	2 077	1 635
United States	t	1 553	1 639	1 903	1 612	1 217	1 009	964
Other	t	1 805	1 659	2 716	4 672	2 974	3 896	3 906
Fillets	t	4 925	3 308	3 996	3 237	2 779	2 537	2 023
Japan	t	1 450	1 368	807	266	219	194	155
Thailand	t	238	13	0	1	127	140	1
United States	t	1 997	886	1 461	1 194	768	775	402
Other	t	1 241	1 040	1 728	1 776	1 666	1 427	1 466
Smoked, dried or salted	t	394	291	178	222	187	164	135
Canned	t	847	762	773	714	834	1 234	1 204
Other	t	3 117	4 106	2 263	1 783	1 736	1 591	1 364
Chinese Taipei	t	139	180	156	106	164	139	105
Japan	t	1 942	2 243	254	115	624	380	86
New Zealand	t	254	109	66	76	37	74	129
Other	t	782	1 574	1 786	1 486	911	998	1 043
Total	t	27 582	28 102	31 396	30 052	25 970	25 931	23 260
Value								
Live fish	\$'000	23 593	41 585	47 271	46 991	39 316	34 946	40 078
Whole	\$'000	246 315	308 807	383 530	376 677	311 085	209 555	208 048
China	\$'000	2 486	433	4 364	3 675	3 549	4 378	1 498
Chinese Taipei	\$'000	4 284	2 226	2 190	1 459	816	305	156
Germany	\$'000	1 352	1 254	726	166	1 320	600	354
Japan	\$'000	209 460	268 382	330 927	331 251	277 718	172 045	178 452
Saudi Arabia	\$'000	55	69	161	124	122	139	78
Singapore	\$'000	2 638	3 042	2 399	1 562	776	1 253	728
Thailand	\$'000	3 004	3 346	3 210	3 331	2 130	4 729	3 725
United States	\$'000	14 098	20 070	22 268	19 320	13 537	10 794	10 268
Other	\$'000	8 937	9 985	17 286	15 790	11 117	15 311	12 789
Fillets	\$'000	41 635	25 334	27 385	24 455	17 007	18 612	14 637
Japan	\$'000	11 134	9 074	3 420	1 689	1 222	1 318	878
Thailand	\$'000	615	52	2	10	239	268	7
United States	\$'000	24 848	11 373	15 763	15 411	8 541	11 306	6 121
Other	\$'000	5 038	4 836	8 199	7 346	7 005	5 720	7 631
Smoked, dried or salted	\$'000	14 019	15 703	15 958	18 608	19 471	20 047	13 687
Canned	\$'000	4 666	4 482	5 165	5 031	6 354	6 587	6 797
Other	\$'000	62 854	82 443	22 517	13 439	16 748	14 627	11 515
Chinese Taipei	\$'000	3 241	3 244	3 583	2 694	3 496	4 167	2 743
Japan	\$'000	52 538	67 897	8 270	2 950	6 701	4 971	2 611
New Zealand	\$'000	414	300	268	275	308	372	766
Other	\$'000	6 662	11 001	10 396	7 519	6 243	5 117	5 395
Total	\$'000	393 083	478 353	501 826	485 201	409 980	304 375	294 762

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity ^a								
Live	t	na	na	na	na	na	na	na
Fresh, chilled or frozen	t	54 893	54 249	57 960	60 090	64 475	59 847	59 724
Whole	t	16 274	16 980	20 842	23 408	24 846	21 368	18 157
New Zealand	t	8 697	9 810	9 909	11 586	13 429	9 563	8 543
Fillets	t	38 619	37 268	37 118	36 682	39 630	38 479	41 567
Chile	t	4 505	3 358	3 492	1 984	1 880	1 192	835
New Zealand	t	12 010	13 004	12 967	12 325	10 819	8 444	8 628
South Africa	t	5 868	5 793	6 139	5 256	5 144	3 989	2 625
Uganda	t	3 844	3 530	1 826	1 674	1 691	803	621
Smoked, dried or salted	t	4 706	2 941	2 151	2 801	2 811	2 957	3 074
South Africa	t	1 384	1 052	453	1 039	668	823	846
Denmark	t	357	303	534	581	895	936	923
Thailand	t	1 744	535	55	59	62	29	21
Canned	t	33 829	41 609	36 944	47 398	58 804	53 443	52 687
Canada	t	3 398	3 451	3 708	3 534	3 833	3 784	4 206
Thailand	t	18 862	24 676	22 771	30 142	44 266	38 872	36 952
United States	t	5 564	7 367	4 425	5 385	5 055	5 037	4 687
Other fish preparations	t	8 719	9 841	10 544	13 453	12 474	14 508	13 721
Japan	t	271	237	232	253	280	348	222
New Zealand	t	3 400	4 055	4 097	5 001	3 583	3 598	3 229
Thailand	t	2 323	2 416	2 825	3 915	3 746	5 462	4 524
Total	t	102 147	108 639	107 599	123 742	138 564	130 756	129 207
Value								
Live	\$'000	54	22	35	6	19	5	1
Fresh, chilled or frozen	\$'000	235 880	246 850	278 527	283 171	273 671	262 302	272 718
Whole	\$'000	57 751	59 823	68 935	77 118	78 122	72 742	71 421
New Zealand	\$'000	35 519	37 009	37 854	44 080	47 703	43 948	45 441
Fillets	\$'000	178 130	187 027	209 592	206 054	195 548	189 560	201 297
Chile	\$'000	14 837	12 380	12 524	6 554	4 925	3 330	2 352
New Zealand	\$'000	65 330	70 307	75 632	73 970	61 017	51 018	51 052
South Africa	\$'000	26 156	28 393	32 013	29 073	27 461	20 983	14 536
Uganda	\$'000	14 416	12 611	12 332	10 931	7 337	3 488	3 387
Smoked, dried or salted	\$'000	28 496	23 164	24 792	26 263	30 459	34 053	36 191
South Africa	\$'000	5 571	4 728	2 495	4 847	3 238	4 227	4 448
Denmark	\$'000	5 827	4 915	9 564	9 828	14 746	16 769	17 003
Thailand	\$'000	5 489	1 524	474	404	501	196	178
Canned	\$'000	161 421	193 656	182 209	218 762	186 148	188 745	228 710
Canada	\$'000	22 434	25 207	20 797	23 358	19 911	19 135	23 280
Thailand	\$'000	70 228	86 888	103 096	118 569	108 463	111 617	143 119
United States	\$'000	31 502	38 248	21 174	27 755	22 146	21 322	21 577
Other fish preparations	\$'000	37 424	45 514	51 138	62 352	54 510	62 181	64 451
Japan	\$'000	2 810	2 398	2 580	2 359	2 331	3 002	1 860
New Zealand	\$'000	13 077	15 702	17 519	22 555	17 690	17 345	15 945
Thailand	\$'000	9 333	10 254	11 548	14 689	11 957	15 814	14 352
Total	\$'000	463 275	509 207	536 701	590 553	544 806	547 285	602 070

^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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Exports									
Quantity									
China	t	0	7	7	5	7	0	0	1
Chinese Taipei	t	0	2	7	5	2	0	1	1
Hong Kong, China	t	5	60	166	85	55	81	103	101
Japan	t	12	21	13	22	34	26	58	63
Singapore	t	52	60	40	77	60	6	5	9
Other	t	4	1	12	24	6	5	7	13
Total	t	73	152	246	219	163	119	174	187
Value									
China	\$'000	2	68	46	34	90	0	0	12
Chinese Taipei	\$'000	1	19	64	45	88	3	8	9
Hong Kong, China	\$'000	77	1 885	4 903	1 596	541	692	870	784
Japan	\$'000	105	133	201	265	542	326	719	777
Singapore	\$'000	388	757	744	1 000	428	106	82	86
Other	\$'000	39	21	325	561	52	55	66	115
Total	\$'000	613	2 884	6 283	3 501	1 742	1 182	1 746	1 783
Imports									
Quantity									
China	t	2	2	2	2	47	4	8	1
Hong Kong, China	t	3	1	2	2	3	1	1	2
Japan	t	17	32	15	18	30	41	11	0
Korea, Rep. of	t	2	12	11	18	28	28	15	0
New Zealand	t	597	612	565	580	685	674	872	673
Other	t	1	1	0	0	0	1	3	1
Total	t	622	660	596	621	792	749	910	678
Value									
China	\$'000	53	61	82	86	295	105	72	17
Hong Kong, China	\$'000	69	57	90	74	90	31	32	65
Japan	\$'000	210	403	219	237	364	440	113	1
Korea, Rep. of	\$'000	39	121	129	197	243	221	106	1
New Zealand	\$'000	4 540	4 549	3 872	4 134	5 933	5 981	6 631	5 710
Other	\$'000	27	22	21	13	0	19	21	13
Total	\$'000	4 938	5 213	4 414	4 740	6 926	6 797	6 975	5 808

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	
	2002-03 '000	2003-04 '000	2002-03 \$m	2003-04 \$m	2002-03 \$m	2003-04 \$m	2002-03 \$m	2003-04 \$m
Meat								
Meat processing	32	29	1 117	1 034	9 293	10 034	1 733	1 658
Poultry processing	17	16	613	655	3 567	3 848	958	1 114
Bacon, ham and smallgoods	9	8	308	317	2 032	2 126	502	496
Total	57	52	2 037	2 006	14 891	16 008	3 193	3 269
Dairy								
Milk and cream processing	7	7	278	312	2 852	2 919	532	625
Ice cream	2	2	69	67	518	553	133	127
Other dairy products	11	11	496	522	5 501	5 519	942	795
Total	19	19	843	901	8 870	8 991	1 606	1 547
Fruit and vegetables	12	13	570	610	4 316	4 606	1 045	1 163
Oil and fat	3	3	161	169	1 764	1 683	379	406
Flour mill and cereal food								
Flour mill products	2	2	131	120	1 774	1 560	338	290
Cereal food and baking mixes	7	6	266	280	2 273	2 024	586	610
Total	9	8	398	400	4 048	3 584	925	899
Bakery products								
Bread	10	11	432	461	1 747	1 810	666	720
Cakes and pastry products	9	9	239	269	1 019	1 113	359	404
Biscuits	5	5	233	212	1 029	870	422	387
Total	25	25	904	941	3 795	3 794	1 447	1 510
Other food								
Sugar	5	5	247	232	2 400	2 005	476	302
Confectionery	9	10	614	559	3 796	3 758	1 352	1 311
Seafood	5	4	131	132	1 491	1 413	223	235
Prepared animal and bird feed	5	4	233	222	2 959	2 676	478	444
Food nec	18	20	682	753	5 032	5 307	1 278	1 221
Total	41	43	1 906	1 898	15 678	15 159	3 807	3 512
Beverage and malt								
Soft drink, cordial and syrup	7	7	356	350	3 401	3 310	1 009	1 052
Beer and malt	4	4	290	304	3 397	3 623	1 303	1 431
Wine	15	15	673	704	4 823	5 541	1 501	1 691
Spirits	na	na	na	na	na	na	na	na
Total ^d	26	27	1 318	1 358	11 621	12 474	3 813	4 174
Total food and beverages ^d	193	190	8 136	8 282	64 982	66 299	16 214	16 480

^a Includes working proprietors. ^b Excludes drawings of working proprietors. ^c Previously 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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	528	625	753	938	993	598	555	668
Fish or shellfish	517	639	771	867	772	676	584	657
Horticulture								
Vegetables	218	191	201	218	199	161	155	149
Fruit and nuts	372	396	476	561	531	406	461	447
Total	590	587	677	779	730	568	616	596
Grains ^a	4 193	4 208	5 294	5 854	3 873	4 654	4 672	4 280
Oilseeds	683	798	721	752	400	549	492	411
Food nec	88	54	81	59	72	45	44	47
Substantially transformed								
Meat								
Meat processing	3 986	4 440	5 770	6 215	5 625	5 722	6 901	6 668
Poultry processing	23	21	26	26	22	20	20	21
Bacon, ham and smallgoods	61	86	65	80	82	84	106	90
Total	4 070	4 548	5 862	6 320	5 729	5 826	7 028	6 779
Seafood	704	899	943	792	711	640	652	577
Dairy								
Milk and cream processing	1 056	1 126	1 550	1 650	1 176	1 073	1 107	1 210
Ice cream	41	36	34	32	29	35	41	39
Other dairy products	1 193	1 305	1 486	1 592	1 285	1 174	1 334	1 317
Total	2 291	2 467	3 070	3 275	2 490	2 282	2 482	2 565
Fruit and vegetables	480	522	566	656	528	508	502	548
Oil and fat	170	131	129	147	144	146	150	148
Flour mill and cereal food								
Flour mill products	204	209	207	233	213	202	222	222
Cereal food and baking mixes	513	529	544	400	257	217	213	245
Total	717	738	751	632	471	419	435	468
Bakery products								
Bread, cakes and pastry products	11	19	15	8	3	4	5	9
Biscuits	79	69	73	92	96	105	113	106
Total	89	88	88	99	99	109	117	115
Other food								
Sugar ^a	1 377	1 111	1 192	1 446	1 238	1 000	1 169	1 687
Confectionery	176	230	261	287	291	267	250	200
Food nec	734	900	1 087	1 148	876	931	935	965
Total	2 288	2 241	2 540	2 881	2 405	2 197	2 354	2 852
Beverages and malt								
Soft drink, cordial and syrup	23	26	45	30	47	37	35	34
Beer and malt	207	213	266	317	324	282	241	218
Wine	1 068	1 374	1 753	2 105	2 424	2 494	2 716	2 758
Spirit	38	55	73	81	72	59	75	71
Total	1 336	1 667	2 136	2 533	2 867	2 872	3 066	3 081
Total food and beverages								
Minimally transformed	6 601	6 911	8 297	9 249	6 840	7 090	6 963	6 658
Substantially transformed	11 899	13 027	15 781	17 000	15 083	14 657	16 454	16 853
Elaborately transformed	247	273	302	336	360	342	332	279
Total	18 747	20 211	24 380	26 585	22 284	22 089	23 749	23 791

^a Includes ABARE estimates where ABS confidentiality restrictions apply.

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

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Value of Australian food exports, to selected regions

	Asia		European Union		NAFTA	
	2004-05	2005-06	2004-05	2005-06	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed						
Live animals except fish	302	302	0	1	3	10
Fish or shellfish	554	628	12	6	14	13
Horticulture						
Vegetables	98	87	16	16	0	1
Fruit and nuts	280	278	31	24	56	56
Total	378	364	47	40	57	57
Grains a	3 223	2 163	122	63	1	1
Oilseeds	458	260	19	110	7	6
Food nec	20	23	8	6	4	3
Substantially transformed						
Meat						
Meat processing	4 132	4 065	239	208	1 968	1 725
Poultry processing	8	9	0	0	0	0
Bacon, ham and smallgoods	85	70	2	4	1	0
Total	4 225	4 144	241	212	1 969	1 726
Seafood	450	392	54	59	117	102
Dairy						
Milk and cream processing	816	926	23	16	31	45
Ice cream	30	26	0	0	0	0
Other dairy products	803	737	109	81	153	156
Total	1 649	1 689	132	97	184	201
Fruit and vegetables	199	204	89	85	56	50
Oil and fat	88	75	4	7	5	11
Flour mill and cereal food						
Flour mill products	139	146	1	1	41	47
Cereal food and baking mixes	56	53	5	5	4	6
Total	195	200	6	6	46	53
Bakery products						
Bread, cakes and pastry products	0	0	0	0	0	0
Biscuits	15	10	9	10	6	6
Total	16	10	9	10	6	6
Other food						
Sugar a	1 097	1 246	4	1	168	233
Confectionery	130	100	8	5	11	10
Food nec	566	612	36	37	26	25
Total	1 793	1 958	48	43	205	267
Beverages and malt						
Soft drink, cordial and syrup	4	5	1	1	0	1
Beer and malt	214	193	0	0	0	0
Wine	172	189	1 289	1 302	1 107	1 113
Spirit	34	25	2	4	1	1
Total	424	412	1 292	1 308	1 109	1 115
Total food and beverage						
Minimally transformed	4 935	3 740	208	227	85	90
Substantially transformed	8 929	9 003	1 859	1 812	3 682	3 517
Elaborately transformed	110	81	17	14	14	15
Total	13 974	12 824	2 083	2 053	3 782	3 621

a Includes ABARE estimates where ABS confidentiality restrictions apply.
Source: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra.

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Value of Australian food imports, by level of transformation

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	1	1	0	1	0	0	1	1
Fish or shellfish	31	35	37	37	41	46	46	47
Horticulture								
Vegetables	24	27	26	24	27	34	32	41
Fruit and nuts	94	99	110	115	115	135	158	184
Total	118	126	136	139	142	169	189	226
Grains	1	1	0	0	65	1	1	1
Oilseeds	29	23	24	21	61	50	25	20
Food nec	172	155	114	59	72	45	44	47
Substantially transformed								
Meat								
Meat processing	51	133	105	206	172	224	345	290
Poultry processing	0	0	0	0	0	0	0	0
Bacon, ham and smallgoods	28	29	31	36	39	40	41	43
Total	79	161	136	242	211	264	387	333
Seafood	720	751	843	865	923	868	928	997
Dairy								
Milk and cream processing	33	29	37	29	34	35	45	45
Ice cream	33	17	21	15	22	22	29	30
Other dairy products	207	230	261	277	275	272	310	357
Total	273	276	319	321	331	330	384	432
Fruit and vegetables	715	719	753	815	899	914	999	1 016
Oil and fat	288	271	275	280	357	345	339	362
Flour mill and cereal food								
Flour mill products	48	79	77	22	41	59	73	57
Cereal food and baking mixes	149	139	196	226	236	260	285	305
Total	197	219	273	248	277	319	358	362
Bakery products								
Bread, cakes and pastry products	76	81	92	57	29	39	47	48
Biscuits	62	80	82	106	152	160	177	199
Total	138	161	174	163	180	199	224	247
Other food								
Sugar	9	11	12	16	20	15	18	19
Confectionery	208	213	224	222	245	261	307	333
Food nec	729	757	858	923	1 033	961	1 036	1 074
Total	945	981	1 094	1 160	1 298	1 237	1 361	1 426
Beverages and malt								
Soft drink, cordial and syrup	276	330	405	421	461	502	537	571
Beer and malt	44	42	52	66	78	91	99	112
Wine	103	114	92	116	139	158	200	248
Spirit	232	252	330	351	327	345	382	403
Total	654	737	880	954	1 005	1 096	1 218	1 334
Total food and beverages								
Minimally transformed	352	342	312	258	382	311	306	341
Substantially transformed	3 893	4 140	4 604	4 876	5 278	5 355	5 970	6 250
Elaborately transformed	117	136	143	172	204	217	228	259
Total	4 361	4 618	5 059	5 306	5 863	5 883	6 503	6 850

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

126 Value of Australian food imports from selected regions

	Asia		European Union		NAFTA	
	2004-05	2005-06	2004-05	2005-06	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed						
Live animals except fish	0	0	0	0	0	0
Fish or shellfish	1	1	1	0	0	0
Horticulture						
Vegetables	12	15	1	1	3	5
Fruit and nuts	20	23	7	6	60	61
Total	32	38	8	7	64	66
Grains	0	0	0	0	0	0
Oilseeds	17	13	0	1	5	3
Food nec	43	52	4	4	2	2
Substantially transformed						
Meat						
Meat processing	0	0	121	101	194	158
Poultry processing	0	0	0	0	0	0
Bacon, ham and smallgoods	1	1	7	6	14	14
Total	1	1	128	107	207	172
Seafood	602	652	45	44	52	58
Dairy						
Milk and cream processing	3	4	1	1	1	1
Ice cream	9	7	6	6	2	3
Other dairy products	4	5	81	85	5	6
Total	15	15	89	92	8	10
Fruit and vegetables	294	315	200	197	106	115
Oil and fat	129	149	146	174	3	5
Flour mill and cereal food						
Flour mill products	18	12	10	10	35	19
Cereal food and baking mix	167	178	67	79	7	10
Total	185	190	76	89	42	29
Bakery products						
Bread, cakes and pastry products	12	12	9	12	2	2
Biscuits	53	67	55	64	14	11
Total	66	78	64	77	17	14
Other food						
Sugar	8	11	3	2	2	2
Confectionery	57	65	134	150	19	18
Food nec	393	393	236	260	122	145
Total	458	468	373	412	142	165
Beverages and malt						
Soft drink, cordial and syrup	19	20	393	444	12	12
Beer and malt	6	8	58	50	25	45
Wine	0	1	112	130	2	2
Spirit	3	4	207	216	142	153
Total	29	33	771	839	182	212
Total food and beverages						
Minimally transformed	93	104	13	12	71	72
Substantially transformed	1 724	1 832	1 822	1 945	743	765
Elaborately transformed	55	70	70	87	17	14
Total	1 872	2 007	1 906	2 044	831	851

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

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Minimally transformed						
Live animals except fish	9 344	8 758	9 326	9 318	10 193	1.9
Fish or shellfish						
Fish, live or fresh	24 908	26 098	26 839	29 400	32 856	5.7
Fish, dried, salted or smoked	2 779	2 788	2 599	2 856	3 182	0.6
Shellfish	19 010	18 066	18 129	19 971	21 041	3.9
Horticulture						
Vegetables	21 263	23 043	24 250	27 701	30 743	5.2
Fruit and nuts	31 012	31 730	34 226	40 742	46 139	7.5
Cocoa	4 617	4 886	6 739	9 557	8 969	1.4
Eggs, albumin	1 365	1 441	1 528	1 866	2 074	0.3
Grains and oilseeds						
Barley	2 911	2 686	2 615	2 823	3 401	0.6
Maize	9 541	9 431	10 410	11 865	13 583	2.2
Oilseeds, not soft oil	772	781	849	982	1 185	0.2
Oilseeds, soft oil	14 922	15 913	15 935	21 490	24 944	3.8
Rice	6 225	5 808	6 090	6 982	7 851	1.4
Wheat or meslin	15 130	15 385	16 436	16 646	20 608	3.5
Other cereal grains, nec	1 604	1 576	1 612	1 704	1 840	0.3
Substantially transformed						
Meat						
Beef, fresh, chilled or frozen	14 149	12 535	13 771	16 015	17 704	3.0
Meat, fresh, chilled or frozen	23 369	25 727	25 709	29 193	33 422	5.6
Meat or offal, preserved	1 727	2 231	2 164	2 512	2 480	0.5
Meat or offal, preserved, nec	5 377	5 798	6 181	7 220	8 531	1.4
Dairy						
Milk products, excluding butter and cheese	14 035	14 718	14 191	16 719	19 302	3.2
Butter and cheese	2 717	2 825	2 916	3 630	4 131	0.7
Cheese and curd	9 488	10 365	11 006	13 160	15 345	2.4
Fish or shellfish	9 672	9 743	10 440	11 453	12 881	2.2
Cereal products						
Flour or meal from wheat or meslin	1 398	1 346	1 360	1 412	1 797	0.3
Cereal flour or meal, nec	380	449	467	568	639	0.1
Cereal etc flour or starch	13 360	14 569	16 352	19 531	22 487	3.5
Horticulture						
Vegetables, prepared or preserved	9 774	10 008	10 753	12 422	14 176	2.3
Fruit, prepared or preserved	6 241	6 218	6 686	8 148	9 318	1.5
Fruit or vegetable juices	6 639	6 136	6 792	8 065	8 348	1.5
Sugar and confectionery						
Sugar, molasses and honey	11 059	13 635	13 028	14 058	15 338	2.8
Sugar confectionery	3 997	4 063	4 392	5 237	5 831	1.0
Chocolate and cocoa preparations	6 657	7 217	7 893	9 600	11 080	1.7

Continued

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Animal and vegetable oil						
Margarine and shortening	1 307	1 269	1 375	1 624	2 018	0.3
Animal oil or fat	1 629	1 570	1 774	2 133	2 592	0.4
Vegetable oil or fat, fixed, soft	8 810	8 798	10 706	13 397	15 842	2.4
Vegetable oils, fixed, not soft	6 846	6 389	8 668	11 689	14 071	2.0
Animal or vegetable oils, processed	2 818	2 779	3 116	3 847	4 469	0.7
Other food						
Coffee and coffee substitutes	12 263	9 506	8 970	10 723	12 337	2.2
Tea and mate	3 013	3 005	3 016	3 160	3 439	0.6
Spices	2 807	2 671	2 613	2 988	3 161	0.6
Edible products, nec	17 821	19 448	21 268	25 239	29 467	4.6
Beverage						
Beverages, nonalcoholic, nec	4 967	5 559	6 371	7 480	8 715	1.4
Alcoholic beverages	28 923	30 186	32 672	37 855	42 819	7.1
Animal feed ^c	21 840	23 285	24 467	27 336	32 328	5.3
Total	418 488	430 439	456 701	530 316	602 678	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 2000–2004. ^c Excludes unmilled cereal.

Sources: International Trade Centre, UNCTAD/WTO; ABARE.

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Meat						
Australia	2 913	3 281	3 240	3 455	4 804	7.0
Denmark	3 335	3 741	3 568	3 961	4 690	7.6
France	3 343	2 926	3 026	3 675	3 961	6.7
Netherlands	4 294	3 933	4 116	4 911	5 726	9.1
United States	7 305	7 239	6 354	7 261	5 195	13.1
Other	22 274	24 606	26 082	30 932	39 740	56.6
Total	43 463	45 727	46 387	54 195	64 117	100.0
Dairy						
Australia	1 573	1 568	1 569	1 349	1 746	5.0
France	3 716	3 709	3 878	4 663	5 186	13.5
Germany	4 093	4 507	3 886	5 327	6 301	15.4
Netherlands	3 118	3 356	3 311	4 358	4 721	12.1
New Zealand	2 125	2 679	2 418	2 771	3 316	8.5
Other	11 829	12 845	12 556	15 201	18 660	45.5
Total	26 454	28 664	27 618	33 668	39 931	100.0
Seafood						
Australia	94	63	45	74	77	0.7
China	1 391	1 428	1 628	1 923	2 594	17.0
Denmark	397	445	452	533	594	4.6
Korea, Rep. of	312	262	232	203	207	2.3
Thailand	2 058	2 012	2 012	2 145	2 145	19.7
Other	5 035	5 285	5 570	6 406	6 981	55.7
Total	9 287	9 495	9 940	11 285	12 598	100.0
Horticulture						
Australia	138	124	140	177	178	0.6
China	1 685	1 869	2 155	2 684	3 207	9.1
Italy	1 552	1 615	1 863	2 178	2 286	7.5
Netherlands	1 885	1 859	2 053	2 453	2 729	8.6
United States	2 378	2 272	2 258	2 252	2 370	9.1
Other	13 960	14 035	15 414	18 605	20 695	65.1
Total	21 598	21 775	23 883	28 349	31 465	100.0
Beverages ^c						
Australia	991	1 089	1 370	1 646	2 088	3.5
France	7 918	7 600	8 562	10 380	11 102	22.1
Germany	1 512	1 853	2 229	2 824	3 148	5.6
Italy	3 037	3 148	3 669	4 238	4 861	9.2
United Kingdom	4 655	4 661	4 990	5 721	6 120	12.7
Other	15 339	16 577	18 185	21 718	24 818	46.9
Total	33 453	34 928	39 005	46 527	52 138	100.0
Sugar and confectionery						
Australia	231	219	244	259	317	1.0
Belgium-Luxembourg	1 737	1 711	1 859	2 278	2 588	7.9
Brazil	1 359	2 485	2 302	2 442	2 987	9.0
France	2 019	1 905	2 140	2 373	2 598	8.6
Germany	1 874	2 214	2 298	2 785	3 218	9.6
Other	13 622	15 272	15 764	18 049	19 814	64.0
Total	20 842	23 805	24 608	28 185	31 521	100.0

Continued

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Animal and vegetable oil						
Argentina	1 691	1 642	2 096	2 842	3 171	8.3
Australia	220	203	215	260	319	0.9
Malaysia	3 515	3 355	4 837	6 503	7 193	18.5
Netherlands	1 224	1 270	1 632	2 005	2 333	6.2
United States	1 503	1 455	1 978	2 067	2 063	6.6
Other	12 189	12 064	15 377	18 923	23 387	59.6
Total	20 342	19 990	26 135	32 600	38 466	100.0
Animal feed ^d						
Argentina	2 433	2 627	2 790	3 500	3 835	12.8
Australia	565	483	522	540	708	2.4
Brazil	1 716	2 167	2 300	2 713	3 402	10.4
Netherlands	1 670	1 617	1 886	2 144	2 808	8.5
United States	3 975	4 414	4 068	4 109	3 925	17.3
Other	9 672	10 406	11 022	12 510	14 241	48.7
Total	20 031	21 714	22 588	25 518	28 919	100.0
Cereal products						
Australia	275	289	319	364	448	1.7
Belgium–Luxembourg	1 308	1 499	1 651	2 007	2 317	8.9
France	1 505	1 534	1 736	2 177	2 531	9.6
Germany	1 503	1 668	1 914	2 431	2 993	10.6
Italy	1 721	1 854	2 034	2 352	2 644	10.7
Other	9 282	9 861	11 094	12 919	14 584	58.4
Total	15 592	16 705	18 749	22 251	25 518	100.0
Other processed food						
Australia	232	211	228	300	333	0.7
Brazil	2 258	1 826	1 681	1 836	2 419	5.4
France	1 387	1 450	1 591	1 959	2 207	4.6
Netherlands	1 638	1 703	1 969	2 488	3 256	5.9
United States	3 204	3 398	3 323	3 706	4 057	9.4
Other	25 528	24 248	25 102	29 497	34 137	74.0
Total	34 246	32 836	33 894	39 785	46 408	100.0
All processed food						
Australia	7 231	7 532	7 892	8 423	11 017	2.9
France	22 737	21 840	23 962	28 954	31 734	8.8
Germany	17 390	20 113	21 132	25 923	30 494	7.8
Netherlands	17 365	17 673	19 504	23 830	27 438	7.2
United States	23 184	24 027	23 123	24 974	24 115	8.1
Other	157 399	164 453	177 194	210 257	246 281	65.1
Total	245 307	255 638	272 807	322 362	371 079	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 2000–2004. ^c Alcoholic and nonalcoholic. ^d Excludes unmilled cereal.

Sources: International Trade Centre UNCTAD/WTO; ABARE.

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Meat						
Australia	98	90	117	152	208	0.3
Germany	3 589	4 059	3 918	4 356	5 022	8.2
Italy	3 083	3 001	3 077	3 807	4 366	6.8
Japan	8 551	8 409	7 776	8 655	9 124	16.6
United Kingdom	3 626	3 987	4 350	5 477	6 501	9.4
Other	25 676	26 746	28 588	32 493	36 917	58.8
Total	44 622	46 291	47 826	54 939	62 138	100.0
Dairy						
Australia	166	165	157	200	255	0.6
Belgium-Luxembourg	1 972	2 048	2 101	2 596	2 946	7.5
Germany	2 551	2 958	3 214	4 093	4 519	11.2
Italy	2 409	2 455	2 396	3 031	3 447	8.9
Netherlands	1 846	1 694	1 811	2 257	2 532	6.6
Other	17 297	18 588	18 434	21 333	25 079	65.2
Total	26 240	27 908	28 113	33 510	38 778	100.0
Seafood						
Australia	172	171	179	215	234	1.8
France	595	613	716	810	884	6.7
Japan	2 499	2 239	2 284	2 170	2 707	22.0
United Kingdom	721	780	791	842	947	7.5
United States	1 821	1 951	2 157	2 362	2 576	20.1
Other	3 865	3 989	4 313	5 055	5 533	42.0
Total	9 672	9 743	10 440	11 453	12 881	100.0
Horticulture						
Australia	249	217	241	322	407	1.1
France	1 861	1 721	1 972	2 450	2 824	8.3
Germany	2 704	2 915	3 100	3 858	4 145	12.9
Japan	2 558	2 499	2 355	2 463	2 803	9.8
United States	3 201	3 145	3 374	3 907	4 282	13.8
Other	12 082	11 866	13 189	15 634	17 382	54.1
Total	22 655	22 362	24 231	28 634	31 843	100.0
Beverages ^c						
Australia	377	371	368	458	575	1.0
Germany	2 955	3 333	3 557	3 770	4 025	8.6
Japan	1 995	1 935	1 893	2 075	2 309	5.0
United Kingdom	4 101	4 211	4 674	5 424	6 523	12.1
United States	8 567	8 964	9 959	11 244	12 085	24.7
Other	15 896	16 930	18 592	22 363	26 018	48.6
Total	33 890	35 744	39 043	45 335	51 534	100.0
Sugar and confectionery						
Australia	157	139	154	214	251	0.7
France	1 346	1 302	1 513	1 849	2 131	6.1
Germany	1 429	1 671	1 760	2 336	2 587	7.4
United Kingdom	1 675	1 698	1 843	2 132	2 569	7.5
United States	2 378	2 534	2 894	3 400	3 476	11.0
Other	14 728	17 571	17 147	18 964	21 235	67.4
Total	21 713	24 914	25 312	28 895	32 248	100.0

Continued

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

	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	2004 US\$m	Share ^b %
Animal and vegetable oil						
Australia	181	152	193	246	295	0.8
Germany	1 122	1 121	1 316	1 664	2 102	5.2
Italy	1 254	1 339	1 665	2 070	2 588	6.4
United Kingdom	903	866	919	1 144	1 297	3.7
United States	1 508	1 297	1 458	1 707	2 437	6.0
Other	16 443	16 030	20 087	25 859	30 274	77.9
Total	21 411	20 806	25 639	32 690	38 993	100.0
Animal feed ^d						
Australia	97	122	165	202	196	0.6
China	908	639	772	659	947	3.0
France	1 428	1 484	1 521	1 800	1 958	6.3
Germany	1 479	1 679	1 705	1 846	2 158	6.9
Japan	2 036	2 114	2 155	2 309	2 533	8.6
Other	15 893	17 248	18 149	20 519	24 536	74.5
Total	21 840	23 285	24 467	27 336	32 328	100.0
Cereal products						
Australia	163	129	137	187	234	0.9
France	1 248	1 266	1 432	1 725	1 986	8.0
Germany	1 060	1 310	1 468	1 693	1 874	7.7
United Kingdom	998	1 092	1 275	1 515	1 891	7.0
United States	1 855	2 004	2 286	2 634	2 883	12.1
Other	9 813	10 562	11 581	13 756	16 056	64.3
Total	15 137	16 364	18 179	21 510	24 923	100.0
Other processed food						
Australia	713	647	713	895	1 027	2.0
France	1 757	1 628	1 784	2 260	2 428	5.0
Germany	3 117	2 901	2 796	3 419	4 071	8.3
Japan	2 451	2 308	2 234	2 391	2 771	6.2
United States	4 871	4 059	4 401	4 980	5 686	12.2
Other	22 996	23 087	23 938	28 164	32 420	66.3
Total	35 904	34 630	35 867	42 109	48 403	100.0
All processed food						
Australia	2 372	2 203	2 426	3 091	3 683	0.9
Germany	20 489	22 479	23 399	27 694	31 175	8.4
Japan	22 883	22 353	21 567	23 216	25 840	7.8
United Kingdom	18 446	18 889	20 540	24 919	29 666	7.5
United States	29 911	30 125	32 784	36 781	41 696	11.5
Other	158 982	165 998	178 401	210 709	242 010	64.0
Total	253 084	262 048	279 117	326 412	374 069	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 2000–2004. ^c Alcoholic and nonalcoholic. ^d Excludes unmilled cereal.
Sources: International Trade Centre, UNCTAD/WTO.

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Summary of Australian statistics for roundwood ^a

	Removals of roundwood ^a			Imports ^b	Exports ^b	Consumption	Consumption per person
	Broadleaved	Coniferous	Total				
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	m ³
1960-61	9 135	1 664	10 799	4 101	271	14 629	1.39
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	9 442	10 562	20 003	7 502	8 462	19 043	1.03
1997-98	9 793	11 016	20 808	8 047	10 302	18 553	0.99
1998-99	9 864	11 816	21 680	8 124	9 914	19 890	1.05
1999-00	12 173	12 484	24 657	9 585	12 350	21 892	1.14
2000-01	11 934	12 700	24 634	8 480	13 187	19 927	1.03
2001-02	11 128	13 360	24 488	8 420	13 690	19 217	0.98
2002-03	12 116	13 916	26 032	9 195	14 882	20 345	1.02
2003-04	12 274	14 812	27 087	10 091	14 931	22 246	1.11
2004-05	12 992	14 215	27 207	10 512	15 150	22 569	1.11
2005-06 ^s	12 567	14 410	26 977	10 008	15 084	21 901	1.07

^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	486	18	2 952	169	15	598	406	0	4 644
(% of land area)	0.61	0.08	1.71	0.07	0.02	8.82	0.30	0.00	0.60
Open forest	19 786	5 486	6 768	3 327	2 112	889	7 139	96	45 603
(% of land area)	24.68	24.10	3.92	1.32	2.15	13.12	5.30	39.92	5.94
Woodland forest	2 755	2 431	39 739	21 869	8 739	1 682	25 290	22	102 526
(% of land area)	3.44	10.68	23.01	8.66	8.88	24.81	18.79	9.03	13.35
Plantation ^b	332	385	226	378	167	227	16	10	1 739
(% of land area)	0.41	1.69	0.13	0.15	0.17	3.35	0.01	3.96	0.23
Unknown	3 632		6 275						9 907
(% of land area)	4.53		3.63						1.29
Total forest									
vegetation cover	26 990	8 319	55 960	25 742	11 033	3 397	32 852	127	164 419
(% of land area)	33.67	36.55	32.40	10.19	11.21	50.10	24.40	52.91	21.40
Total land area	80 160	22 760	172 720	252 550	98 400	6 780	134 620	240	768 230

^a NFI 2005. ^b As at June 2005.

Source: National Forest Inventory 2003, National Plantation Inventory 2006, Bureau of Rural Sciences, Canberra.

132 Australian prices of selected forest products

	Timber, panels and joinery a	Structural timber		Plywood and board b	Hardwood chips c	Softwood chips c	Newsprint d
	index	Hardwood b index	Softwood b index	index	\$/bdt	\$/bdt	\$/t
1980-81	50.3	50.2	53.1	49.1	na	na	na
1981-82	54.1	55.7	55.4	53.9	na	na	na
1982-83	57.7	60.4	60.1	60.6	na	na	na
1983-84	63.0	65.2	65.7	64.4	na	na	na
1984-85	70.1	72.2	72.6	67.3	na	na	na
1985-86	75.7	76.5	79.7	72.6	na	na	na
1986-87	79.2	79.9	81.7	75.3	na	na	na
1987-88	84.0	82.8	83.5	83.6	na	na	na
1988-89	93.4	94.4	94.0	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	101.7	103.7	104.0	147.89	126.74	708.76
1991-92	100.1	100.1	100.9	107.1	150.90	149.32	716.31
1992-93	103.8	105.0	109.2	106.9	148.34	149.22	687.75
1993-94	115.6	114.0	137.4	113.9	149.90	137.75	703.22
1994-95	118.8	122.7	137.4	117.5	152.76	140.65	715.79
1995-96	116.4	121.7	127.8	111.0	160.45	167.50	1 007.91
1996-97	116.2	118.6	123.2	108.2	161.96	138.58	888.20
1997-98	118.8	121.6	129.2	109.0	151.57	144.16	900.13
1998-99	120.6	126.8	133.0	108.7	152.02	147.52	930.02
1999-00	127.1	138.1	137.9	110.9	140.35 s	137.00 s	942.99
2000-01	133.3	150.5	139.5	114.2	146.26	158.39	961.77
2001-02	134.6	153.2	139.5	117.2	149.34	157.57	993.54
2002-03	138.1	157.5	142.6	121.7	150.81	138.71	922.91
2003-04	141.7	161.4	145.3	125.5	156.93	128.15	912.47
2004-05	144.1	na	na	na	158.40	132.56	868.61
2005-06	144.5	na	na	na	160.53	138.35	838.59

a Price index of materials used in house building; base 1989-90 = 100. **b** Price indexes of materials used in building other than house building; base 1989-90 = 100. Discontinued from September quarter 2004. **c** Average unit fob value of Australian exports in bone dry tonnes. **d** Average unit value of Australian imports, fob New Zealand. **s** ABARE estimate. **na** Not available.
 Sources: ABS, *Price Index of Materials Used in Building Other Than House Building, Eight Capital Cities*, cat. no. 6407.0, Canberra; ABS, *Producer Price Index*, cat. no. 6427.0, Canberra; ABARE.

133 Value of turnover in forest products industries ^a

	1997-98 \$m	1998-99 \$m	1999-00 \$m	2000-01 \$m	2001-02 \$m	2002-03 \$m	2003-04 \$m
ANZSIC group and class							
Wood and wood products							
Log sawmilling	771	729	881	694	1 376	1 395	1 569
Resawn and dressed timber	1 215	1 177	1 287	1 633	1 626	2 010	1 988
Veneers, plywood and fabricated wood manufacturing	1 081	1 143	1 239	1 316	1 522	1 679	1 821
Wooden structural fittings and joinery nec	2 184	2 512	3 241	2 624	2 671	3 057	3 327
Hardwood woodchips	507	448	517	243	536	649	655
Wood products nec	560	589	682	617	1 023	1 077	1 143
Total	6 319	6 599	7 846	7 126	8 757	9 972	10 503
Paper and paper products							
Pulp, paper and paperboard	1 961	2 114	2 277	2 663	2 629	1 933	1 860
Paper bags including sack manufacturing	278	310	1 899	261	346	353	357
Solid fibreboard containers	506	556	551	714	659	649	518
Corrugated fibreboard containers	1 440	1 537	na ^b	2 629	2 420	3 203	3 275
Paper products nec	993	1 085	1 054	1 686	1 754	1 922	2 114
Total	5 179	5 602	5 780	7 951	7 808	8 059	8 124
Total value	11 498	12 201	13 626	15 077	16 563	17 926	18 627

^a Turnover is defined as follows: sales of goods whether produced by the establishment or not, plus transfers out of goods to other establishments of the same enterprise, plus bounties and subsidies on production, plus all other operating revenue from outside the enterprise such as commission, repair and service revenue, plus capital work done for own use or for rental or lease. Receipts from rent, leasing, interest other than hire purchase, royalties and the sale of fixed tangible assets are excluded. Since 1988-89, full ABS censuses of manufacturing establishments have been conducted triennially. ^b Included with Paper bags including sack manufacturing. **na** Not available.
Source: ABS, *Manufacturing Industry, Australia*, cat. no. 8221.0, Canberra.

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Employment in forest products industries ^a

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	'000	'000	'000	'000	'000	'000	'000
Forestry and logging	8.7	13.5	13.2	9.7	12.1	12.2	11.3
Manufacturing industries ^a							
Wood and wood products							
Log sawmilling	6.5	5.3	8.6	7.7	9.5	na	na
Resawn and dressed timber	6.2	7.9	7.2	7.1	6.9	na	na
Veneers, plywood and fabricated wood manufacturing	4.9	5.5	5.5	5.7	5.8	na	na
Wooden structural fittings							
and joinery nec	22.2	20.2	20.1	20.8	22.3	na	na
Hardwood woodchips	0.8	0.6	1.2	1.2	1.1	na	na
Wood products nec	6.2	5.7	9.9	9.6	9.5	na	na
Total	46.8	45.3	52.5	52.1	55.1	na	na
Paper and paper products							
Pulp, paper and paperboard	4.3	5.1	4.6	4.5	4.0	na	na
Paper bags including sack manufacturing	1.4	1.3	1.3	1.3	1.1	na	na
Solid fibreboard containers	2.6	2.9	2.9	2.9	2.2	na	na
Corrugated fibreboard containers	4.9	5.9	6.0	6.1	6.1	na	na
Paper products nec	3.6	4.6	4.9	5.4	5.6	na	na
Total wood	16.9	19.7	19.7	20.1	19.0	17.6	na
Total forestry manufacturing industries	63.6	65.0	72.2	72.3	74.1	71.3	71.6
Total employment	72.4	78.5	85.4	82.0	86.2	83.5	82.9

^a ANZSIC group and class. Based on PAYE employment statistics excluding volunteers. **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, Australia*, cat. no. 8221.0, Canberra.

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Value of Australian forest products trade ^a

	1999-00 \$m	2000-01 \$m	2001-02 \$m	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m
Imports							
Roundwood	0.8	0.9	0.7	1.8	1.1	1.0	0.4
Sawnwood							
Coniferous roughsawn	282.3	197.3	190.6	223.8	211.6	182.3	150.3
Coniferous dressed	156.1	123.4	149.7	175.9	181.7	188.7	150.5
Broadleaved roughsawn	62.4	59.7	58.0	64.7	58.3	63.1	65.2
Broadleaved dressed	47.3	47.2	44.2	40.3	50.3	57.9	53.5
Total	548.1	427.7	442.5	504.7	501.9	492.0	419.4
Railway sleepers	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Miscellaneous forest products ^b	475.9	461.5	528.1	589.3	583.5	586.1	527.5
Veneer	25.9	22.9	22.3	26.0	23.1	24.3	24.9
Plywood	77.4	64.9	80.0	111.6	112.1	127.7	133.2
Particleboard	11.3	13.8	18.7	21.5	17.2	24.4	13.7
Hardboard	6.6	5.5	7.1	6.0	10.7	18.8	27.3
Medium density fibreboard	55.4	34.7	31.7	29.4	22.9	15.0	21.6
Softboard and other fibreboard	12.7	9.7	9.9	11.8	7.1	8.4	10.4
Paper and paperboard							
Newsprint	257.9	277.5	219.8	243.9	261.0	260.7	266.9
Printing and writing	1 141.8	1 181.7	1 285.2	1 446.1	1 422.5	1 442.6	1 431.6
Household and sanitary	89.2	94.7	102.5	117.9	137.9	127.9	151.6
Packaging and industrial	508.8	534.1	403.3	303.2	280.8	306.7	299.2
Total	1 997.7	2 088.0	2 010.9	2 111.2	2 102.1	2 137.9	2 149.4
Paper manufactures ^c	356.2	377.5	373.2	409.9	375.3	442.0	463.2
Wastepaper	7.4	8.8	4.6	8.0	4.7	2.3	1.5
Pulp	219.8	316.6	221.3	253.7	235.1	225.1	225.0
Pulpwood	1.6	1.4	1.2	1.5	1.4	2.0	2.1
Total	3 797.0	3 834.1	3 752.1	4 086.3	3 998.2	4 107.1	4 019.7

Continued

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Value of Australian forest products trade ^a continued

	1999-00 \$m	2000-01 \$m	2001-02 \$m	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m
Exports							
Roundwood	69.75	66.77	89.08	106.82	113.63	72.53	82.35
Sawnwood							
Coniferous roughsawn	3.09	12.49	15.86	13.10	18.20	40.72	63.25
Coniferous dressed	16.89	12.03	14.27	14.05	16.40	20.94	14.48
Broadleaved roughsawn	25.52	24.23	28.85	33.66	28.23	26.63	29.56
Broadleaved dressed	5.73	10.17	6.88	7.91	9.28	10.90	11.17
Total	51.23	58.92	65.87	68.72	72.12	99.19	118.45
Railway sleepers	6.21	9.03	6.54	4.37	4.21	3.99	3.68
Miscellaneous forest products ^b	61.62	71.16	54.66	53.03	49.42	65.38	59.54
Veneer	6.29	8.06	7.93	5.81	6.72	4.52	5.78
Plywood	2.73	2.98	5.31	2.62	2.95	4.81	3.85
Particleboard	21.52	26.49	26.66	17.41	11.26	6.35	6.23
Hardboard	6.29	10.63	5.99	4.00	5.81	4.50	4.63
Medium density fibreboard	98.69	150.56	162.43	145.57	112.45	118.89	120.95
Softboard and other fibreboard	11.79	7.79	6.56	9.91	9.26	11.37	9.60
Paper and paperboard							
Newsprint	1.58	2.56	1.27	0.92	0.23	0.67	0.16
Printing and writing	121.09	145.63	281.41	213.24	170.08	182.26	144.88
Household and sanitary	80.11	80.48	94.82	97.19	116.99	102.19	92.39
Packaging and industrial	287.86	300.18	263.00	314.40	342.25	336.54	355.64
Total	490.63	528.85	640.50	625.74	629.56	621.66	593.08
Paper manufactures ^c	65.85	83.82	141.79	156.77	136.11	116.14	116.11
Wastepaper	39.89	39.73	55.45	49.65	52.59	96.65	140.14
Pulp	1.59	4.55	2.84	2.12	1.37	4.40	5.47
Woodchips	646.10	743.77	711.99	807.95	794.44	858.24	839.03
Total	1 580.20	1 813.11	1 983.60	2 060.50	2 001.91	2 088.64	2 108.88

^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, parquet flooring, builders carpentry, cork, gums, resins, eucalyptus oils and other miscellaneous wood articles. Excludes wood furniture. ^c Includes such items as boxes, bags, account books, note books, letter pads and other paper stationery.

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

136 Australian production, trade and consumption of sawnwood

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Broadleaved (hardwood)							
Production	1 471	1 287	1 338	1 323	1 253	1 231	1 188
Imports	124	107	104	115	142	147	131
Exports	45	30	38	41	36	40	41
Consumption	1 550	1 360	1 404	1 397	1 359	1 338	1 278
Coniferous (softwood)							
Production	2 622	2 634	2 877	3 088	3 415	3 456	3 596
Imports	846	611	632	695	729	700	541
Exports	45	44	43	41	71	165	249
Consumption	3 429	3 201	3 465	3 742	4 073	3 991	3 888
Total broadleaved and coniferous							
Production	4 093	3 921	4 215	4 411	4 668	4 687	4 784
Imports	970	719	735	810	871	847	671
Exports	90	74	81	81	107	205	290
Consumption	4 979	4 561	4 869	5 139	5 432	5 329	5 165

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

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Volume of Australian imports of sawnwood, by source and type

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	'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	18	21	31	49	69	60	52
Canada							
Douglas fir	127	64	65	73	50	48	36
Western red cedar	79	42	52	67	54	54	42
Other	45	20	14	15	22	19	7
Total	251	126	131	155	126	121	86
Malaysia							
Meranti ^a	40	28	28	30	30	27	27
Other	24	20	20	20	25	29	28
Total	64	47	48	49	55	56	56
New Zealand							
Radiata pine	380	302	321	331	332	303	222
Douglas fir	61	51	59	60	57	47	37
Other	51	35	39	47	47	48	38
Total	491	387	420	438	436	398	298
United States							
Douglas fir	27	16	12	6	3	1	0
Western red cedar	2	1	1	1	0	0	0
Other	15	12	10	11	9	6	6
Total	44	29	23	17	13	7	7
Region							
Asia	96	77	77	86	104	114	105
Europe	47	51	30	31	65	98	80
North America	295	155	154	172	139	127	93
Pacific	507	406	438	460	469	423	319
South America	4	4	2	6	17	22	23
Other	20	26	36	56	77	63	53
Total	970	719	735	810	871	847	671
(value \$m)	548.1	427.7	442.5	504.7	501.9	492.0	419.4

^a Includes Iauan and seraya.

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

138 Australian production, trade and consumption of panel products

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	'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	157	192	219	146	156	145
Particleboard	978	904	965	1 025	1 048	944	1 002
Medium density fibreboard	621	712	732	786	795	794	798
Total	1 791	1 774	1 890	2 030	1 989	1 894	1 944
Imports							
Plywood	114	97	116	159	176	199	204
Particleboard	32	44	70	93	60	65	37
Hardboard	9	8	7	8	13	22	30
Medium density fibreboard	138	88	81	77	47	28	52
Softboard and other fibreboards	26	34	22	22	15	17	19
Total	319	271	296	359	312	330	341
Exports							
Plywood	10	7	11	2	2	4	3
Particleboard	69	98	100	54	32	14	14
Hardboard	5	6	10	8	12	8	7
Medium density fibreboard	288	389	403	405	357	365	352
Softboard and other fibreboards	40	14	11	26	18	14	11
Total	412	515	535	496	420	404	388
Consumption							
Plywood	296	247	297	377	320	351	346
Particleboard	941	850	935	1 063	1 077	995	1 025
Medium density fibreboard	471	411	411	458	485	457	497
Total	1 708	1 509	1 643	1 898	1 882	1 804	1 868

^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.

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

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Plywood							
Chinese Taipei	0.00	0.00	0.00	0.02	0.02	0.02	0.02
Indonesia	39.16	25.92	29.56	34.62	36.46	49.32	42.04
Korea, Rep. of	0.03	0.03	0.00	0.04	0.01	0.02	0.00
Malaysia	16.87	15.98	15.73	20.73	19.80	19.02	22.17
New Zealand	38.40	30.74	47.24	70.26	80.76	82.56	74.52
Papua New Guinea	0.62	0.46	1.79	2.46	3.95	4.04	4.25
Singapore	0.89	0.60	2.29	2.10	1.35	0.92	1.34
Other	18.35	23.26	19.17	28.74	33.94	42.86	59.19
Total	114.31	97.01	115.77	158.97	176.29	198.75	203.53
(value, \$m)	77.4	64.9	80.0	111.6	112.1	127.7	133.2
Veneer							
Malaysia	2.28	1.59	1.48	2.83	3.18	3.19	3.56
New Zealand	1.73	0.30	34.56	0.56	3.07	8.51	12.28
Philippines	6.08	3.46	2.72	3.10	3.20	2.50	2.60
Singapore	0.36	0.18	0.46	0.22	0.14	0.28	0.10
South Africa	1.14	0.84	0.77	0.69	0.49	0.19	0.08
Thailand	0.06	0.06	0.14	0.08	0.02	0.03	0.04
United States	2.06	1.36	1.19	1.16	0.95	0.75	1.27
Other	6.61	4.52	4.48	4.60	4.30	5.48	3.75
Total	20.32	12.32	45.80	13.22	15.34	20.94	23.68
(value, \$m)	25.9	22.9	22.3	26.0	23.1	24.3	24.9
Particleboard							
Malaysia	0.47	0.32	0.31	0.25	0.97	1.87	2.09
New Zealand	27.72	31.67	35.01	27.52	24.12	42.27	10.70
Other	2.15	9.76	8.92	19.22	11.90	12.35	14.76
Total	31.94	43.90	70.00	92.99	60.50	65.23	36.77
(value, \$m)	11.3	13.8	18.7	21.5	17.2	24.4	13.7
Hardboard							
Brazil	0.90	1.49	0.17	0.20	0.18	0.17	0.17
New Zealand	5.03	3.65	3.94	3.42	4.50	7.06	3.98
Other	2.41	4.09	2.55	3.79	5.35	5.33	7.85
Total	9.27	8.24	7.30	7.98	12.77	21.68	30.26
(value, \$m)	6.6	5.5	7.1	6.0	10.7	18.8	27.3
Medium density fibreboard							
Malaysia	10.82	8.62	10.65	14.86	18.82	15.87	16.91
New Zealand	117.13	74.52	65.37	53.09	23.57	7.74	31.95
Other	9.69	5.11	5.41	9.39	4.78	4.12	3.06
Total	137.64	88.25	81.42	77.34	47.18	27.74	51.91
(value, \$m)	55.4	34.7	31.7	29.4	22.9	15.0	21.6
Softboard and other fibreboards							
New Zealand	17.87	12.49	7.92	8.65	3.23	7.00	4.69
Other	7.68	20.43	8.21	11.43	5.10	6.18	10.15
Total	25.86	33.56	21.67	21.93	15.16	17.02	18.52
(value, \$m)	12.7	10.1	9.9	11.8	7.1	8.4	10.4

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

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

	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Production							
Newsprint	464.0	465.0	395.0	412.0	422.0	423.0	na
Printing and writing paper	535.0	554.0	624.0	564.0	585.0	604.0	na
Household and sanitary	232.0	204.0	198.0	194.0	200.0	195.0	na
Packaging and industrial paper	1 605.0	1 449.0	1 679.0	1 892.0	1 956.0	1 885.0	na
Total	2 836.0	2 672.0	2 897.0	3 061.0	3 164.0	3 107.0	na
Imports							
Newsprint	293.1	283.9	224.2	273.3	303.5	314.0	324.5
Printing and writing paper	838.6	760.4	838.5	970.6	1 099.1	1 186.5	1 137.4
Household and sanitary	53.5	54.8	55.9	66.7	84.6	77.9	87.9
Packaging and industrial paper	325.4	310.8	212.5	144.1	153.7	175.3	183.5
Total	1 510.6	1 409.8	1 331.1	1 454.7	1 641.0	1 753.7	1 733.4
Exports							
Newsprint	2.0	2.5	1.5	2.5	0.3	1.6	0.2
Printing and writing paper	97.1	100.2	301.9	199.9	158.7	174.7	145.6
Household and sanitary	23.2	23.4	42.8	51.2	35.2	36.6	30.7
Packaging and industrial paper	383.5	408.2	390.5	483.2	596.5	567.7	632.8
Total	505.8	535.0	736.7	736.9	790.7	780.6	809.2
Total consumption							
Newsprint	755.1	746.3	617.7	682.8	725.2	735.4	na
Printing and writing paper	1 276.5	1 214.2	1 160.7	1 334.7	1 525.4	1 615.8	na
Household and sanitary	262.3	235.4	211.1	209.4	249.4	236.3	na
Packaging and industrial paper	1 546.9	1 351.5	1 500.9	1 552.8	1 513.2	1 492.5	na
Total	3 840.8	3 546.9	3 491.4	3 778.8	4 014.3	4 080.0	na
Consumption per person							
Newsprint	39.4	38.4	31.5	34.4	36.1	36.2	na
Printing and writing paper	66.6	62.5	59.1	67.2	75.9	79.4	na
Household and sanitary	13.7	12.1	10.7	10.5	12.4	11.6	na
Packaging and industrial paper	80.8	69.6	76.4	78.1	75.3	73.4	na
Total	200.5	182.7	177.8	190.2	199.8	200.6	na

na Not available.

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

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

	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Newsprint a							
Canada	4.5	4.9	0.7	0.1	0.9	1.3	0.3
Finland	16.5	20.7	9.3	7.3	4.3	1.7	1.8
Indonesia	35.0	24.0	19.3	27.9	30.7	24.8	21.6
Korea, Rep. of	62.3	41.5	14.8	34.9	60.0	63.8	74.3
New Zealand	159.2	181.4	173.5	187.4	191.3	201.9	214.3
Other	17.7	15.7	4.7	15.0	16.0	11.0	8.2
Total	293.1	283.9	224.2	273.3	303.5	314.0	324.5
(value, \$m)	257.9	277.5	219.8	243.9	261.0	260.7	266.9
Printing and writing paper							
Austria	17.0	15.8	19.8	22.0	19.9	14.1	18.8
Brazil	8.0	2.3	2.5	4.8	4.0	5.5	6.2
Canada	45.1	21.4	17.7	41.4	39.8	31.7	13.3
Finland	152.0	145.4	158.9	156.9	180.5	226.4	181.0
Germany	43.8	38.4	31.6	49.5	74.1	63.4	63.5
Indonesia	123.5	75.9	61.5	90.1	113.4	70.3	65.4
Italy	49.5	46.3	27.5	35.0	63.2	50.4	44.4
Japan	40.0	34.0	34.3	43.1	36.4	41.3	30.9
Korea, Rep. of	36.6	22.0	28.6	32.6	42.4	103.3	107.0
New Zealand	5.4	2.1	17.0	34.9	28.2	30.6	40.6
Norway	21.9	15.5	15.3	18.5	19.6	16.6	15.4
South Africa	18.9	14.8	13.1	14.7	18.4	15.5	6.2
Sweden	43.6	41.5	53.3	58.4	70.3	83.9	75.1
United States	59.2	89.3	96.0	131.0	126.5	135.2	129.5
Other b	257.1	230.4	293.4	279.8	291.9	294.2	287.0
Total	838.6	760.4	838.5	970.6	1 099.1	1 186.5	1 137.4
(value, \$m)	1 141.8	1 181.7	1 285.2	1 446.1	1 422.5	1 442.6	1 431.6
Household and sanitary products							
Chinese Taipei	4.8	1.3	1.9	2.8	0.9	0.4	1.0
Indonesia	11.3	8.9	10.2	16.2	23.0	16.5	15.8
New Zealand	14.3	17.8	16.1	10.6	16.0	14.5	20.3
Other	21.5	15.4	11.6	12.8	13.1	11.4	10.2
Total	53.5	54.8	55.9	66.7	84.6	77.9	87.9
(value, \$m)	89.2	94.7	102.5	117.9	137.9	127.9	151.6

Continued

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

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt
Packaging and industrial							
Belgium-Luxembourg	1.1	1.1	0.9	0.7	0.8	0.7	0.9
Brazil	3.1	2.0	0.6	0.7	0.7	0.8	0.3
China	4.9	6.6	6.9	8.6	10.4	15.5	20.8
Finland	35.6	40.8	19.1	15.7	15.1	16.3	14.8
France	4.0	3.3	2.8	3.4	4.7	5.4	4.7
Germany	33.9	24.4	16.3	8.8	7.2	7.1	8.3
Indonesia	6.7	4.3	3.7	3.9	4.9	6.9	7.7
Italy	7.5	8.3	6.8	11.4	8.6	7.0	6.3
Japan	1.6	0.7	0.7	3.5	3.6	4.2	3.9
Netherlands	4.5	4.3	2.7	3.3	2.9	2.4	2.1
New Zealand	69.0	77.0	45.2	19.6	19.0	32.0	36.8
Singapore	2.6	1.4	6.0	9.8	8.8	7.9	1.0
South Africa	8.5	10.8	12.0	5.6	6.3	7.3	9.3
Sweden	5.0	12.0	9.8	6.0	8.7	7.4	9.5
Thailand	14.9	0.4	4.1	3.1	5.9	8.5	12.3
United Kingdom	6.4	8.0	8.9	6.7	5.5	4.1	4.3
United States	105.5	93.2	56.3	19.7	13.7	14.4	12.1
Other	15.6	16.0	10.0	11.9	19.3	14.3	14.4
Total	325.4	310.8	212.5	144.1	153.7	175.3	183.5
(value, \$m)	508.8	534.1	403.3	303.2	280.8	306.7	299.2

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

	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Mechanical	376	362	395	485	617	627	na
Chemical ^a	508	534	698	770	781	727	na
Total pulp	884	896	1 093	1 255	1 398	1 354	na
Wastepaper used	1 542	1 634	1 554	1 654	1 707	1 668	na

^a Details for semichemical pulp are included in chemical 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

	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Mechanical							
Canada	0.2	0.2	0.4	0.4	0.5	0.4	0.8
New Zealand	7.6	6.0	3.9	5.8	3.1	6.2	6.5
United States	0.1	0.4	0.2	0.1	0.0	0.0	0.0
Total	8.1	7.6	4.5	6.5	3.9	7.5	7.6
(value, \$m)	6.5	8.2	3.9	4.7	2.5	5.2	5.1
Chemical							
Brazil	10.6	16.9	24.4	33.9	55.4	59.0	78.1
Canada	44.5	33.9	23.4	45.1	55.4	58.5	65.1
Finland	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia	45.3	47.3	44.7	43.8	30.7	9.8	0.0
New Zealand	88.3	110.9	120.2	122.7	106.4	108.7	105.6
United States	29.6	22.2	7.2	9.0	5.4	10.5	6.4
Other	36.3	55.6	56.5	74.0	89.6	70.4	65.5
Total	254.6	286.8	276.4	328.5	343.1	316.9	320.7
(value, \$m)	209.0	299.9	192.6	232.0	212.7	204.0	207.1
Semichemical							
Total	12.6	9.0	33.6	24.0	29.7	25.9	19.7
(value, \$m)	4.3	8.6	24.7	17.1	19.9	15.8	12.8
Total wood pulp							
(value, \$m)	275.4	303.4	314.5	359.0	376.6	350.3	348.0
	219.8	316.6	221.3	253.7	235.1	225.1	225.0

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

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Volume of Australian roundwood and woodchip trade

	Exports				
	Imports	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	5.3	122	2 475	2 597
1990-91	0.5	79.5	118	2 687	2 804
1991-92	0.3	86.2	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	778.3	1 033	2 852	3 885
1999-00	2.3	1 149.7	1 046	3 582	4 628
2000-01	1.3	949.3	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	1 335.0	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

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 kt	Grape use		Australian wine		Production of dried vine fruit kt	Exports of dried vine fruit kt
		Wine making kt	Drying and table kt	Domestic sales ML	Sales per person L		
1960-61	535.0	187.6	347.4	53.1	5.0	83.0	57.6
1961-62	638.0	234.5	403.5	54.3	5.1	98.1	65.8
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	20.3	17.0	9.7
2003-04	2 093.7	1 895.3	198.4	417.4	20.8	27.0	6.8
2004-05	2 145.2	1 937.1	208.1	430.1	21.1	30.0	6.6
2005-06	2 132.4	1 921.3	211.1	431.1	21.0	30.4	7.3

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; Australian Dried Fruits Corporation, *Annual Report*, Melbourne; Australian Dried Fruits Board, *Annual Report*, Melbourne; Australian Dried Fruits Association, *Australian Dried Fruits Association News*, Mildura; Australian Dried Fruits Association, Mildura; ABARE.

146 Australian wine exports, by type and major destination

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Type								
Table wine	ML	276.23	329.81	406.31	498.16	571.25	654.51	704.33
Red	ML	144.86	179.79	233.23	307.09	364.77	420.62	445.45
White	ML	131.37	150.02	173.08	191.07	206.49	233.90	258.88
Sparkling wine	ML	8.13	6.60	6.93	7.23	9.81	12.45	14.34
Fortified wine	ML	2.15	2.27	1.86	1.79	2.51	2.07	2.59
Other wine	ML	0.00	0.22	0.91	0.78	0.75	0.69	0.74
Total	ML	286.50	338.90	416.01	507.96	584.32	669.72	722.00
Major destination								
Canada	\$m	73.7	91.2	123.5	174.5	205.1	247.4	249.2
China	\$m	1.6	2.2	2.4	3.5	5.9	9.9	21.5
Germany	\$m	40.9	50.1	48.0	60.9	70.9	71.7	75.6
Hong Kong, China	\$m	12.6	14.5	16.9	15.2	17.9	20.0	25.4
Ireland	\$m	37.4	40.1	42.7	40.3	49.4	53.9	54.0
Japan	\$m	29.4	29.5	30.0	31.5	35.7	48.7	44.2
Netherlands	\$m	36.2	33.9	33.4	40.6	39.3	46.0	45.3
New Zealand	\$m	65.3	77.2	84.7	101.4	98.0	93.7	92.0
Singapore	\$m	14.9	17.2	20.0	22.4	30.6	33.1	37.6
Sweden	\$m	20.3	18.6	25.2	33.3	39.2	36.2	49.6
Switzerland	\$m	28.4	30.9	30.1	36.7	23.9	19.7	19.5
Thailand	\$m	2.5	2.7	3.4	4.4	5.2	7.7	7.8
United Kingdom	\$m	590.4	689.8	842.6	857.0	860.3	966.7	959.8
United States	\$m	316.9	417.3	583.2	857.7	905.5	897.1	901.6
Other	\$m	76.9	98.9	83.9	106.5	107.1	163.3	173.9
Value	\$m	1 347.4	1 614.1	1 970.0	2 385.9	2 494.0	2 715.0	2 757.0
Unit value	\$/L	4.70	4.76	4.74	4.70	4.27	4.05	3.82

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

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	ML	ML	ML	ML	ML	ML	ML
Table wine	307.09	325.33	329.60	344.47	355.04	364.84	365.52
Red	114.05	125.56	130.08	142.84	147.07	155.49	153.61
White	193.04	199.76	199.52	201.63	207.96	209.35	211.91
Sparkling wine	32.57	30.66	29.42	31.62	34.68	38.40	39.79
Bottle fermented	18.22	16.71	17.42	22.99	21.56	22.99	23.13
Bulk fermented	14.35	13.95	12.00	8.63	13.12	15.41	16.66
Carbonated wine	3.51	3.29	3.12	2.80	3.47	4.21	4.25
Total unfortified wine	343.18	359.28	362.14	378.89	393.19	407.44	409.56
Total fortified wine	22.99	22.19	20.36	20.84	21.20	19.93	18.51
Vermouth and other wine	3.11	3.38	2.79	2.75	2.99	2.76	3.03
Total domestic sales	369.28	384.85	385.29	402.48	417.38	430.13	431.10
Total wine	388.88	397.62	399.77	419.60	436.16	452.27	458.26
Wine imports							
Table wine	14.10	8.12	9.20	11.58	11.87	14.78	19.60
Sparkling wine	3.83	2.91	3.28	3.85	4.78	5.19	5.92
Fortified wine	0.69	0.11	0.20	0.19	0.73	0.25	0.13
Other	1.00	1.64	1.80	1.50	1.40	1.92	1.51
Total	19.61	12.77	14.48	17.11	18.74	22.14	27.16

^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	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Bearing area	'000 ha	111	136	140	146	153	157
Wine grape production							
Red wine	kt	794.7	910.7	804.5	1 093.3	1 070.5	1 049.5
White wine	kt	498.2	575.8	518.6	683.0	773.0	778.0
Multipurpose	kt	129.0	119.9	88.2	119.0	93.5	93.7
Total	kt	1 421.9	1 606.3	1 411.4	1 895.3	1 937.1	1 921.3
Exports							
Wine	ML	338.9	416.0	508.0	584.3	669.7	722.0
– value	A\$m	1 614.1	1 970.0	2 385.9	2 494.0	2 715.0	2 757.0
Australian weighted average price							
White wine	A\$/t	550.1	599.4	655.4	668.6	554.9	521.6
Red wine	A\$/t	722.5	701.2	562.1	501.4	434.4	412.6

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; 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

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

150 Production and trade in Australian dried vine fruit

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production									
Dried weight	kt	44	31	17	34	17	27	30	30
Fresh weight ^s	kt	119	133	90	146	76	128	141	140
Gross value	\$m	66	82	57	99	48	88	87	na
Gross unit value ^a	\$/t	1 495.0	2 641.3	3 423.1	2 921.9	2 847.0	3 245.6	2 900.0	na
Exports									
Volume	kt	14	5	6	6	10	7	7	7
Value	\$m	37	13	17	14	20	15	15	18

^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. ^s ABARE estimate. **na** Not available.
Source: Australian Dried Fruits Association, *Australian Dried Fruits Association News*, Mildura.

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Production and exports of Australian citrus, by variety

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Navel oranges									
Production	kt	149	180	252	178	296	208	225	274
Exports ^a	kt	60.51	68.68	99.09	86.83	101.12	67.09	80.87	82.24
– value	\$'000	74 204	86 728	111 775	110 403	119 164	84 644	94 457	88 278
Valencia oranges									
Production	kt	299	337	399	236	337	199	228	297
Exports ^a	kt	51.64	42.81	51.39	47.77	32.14	25.94	29.18	29.18
– value	\$'000	44 292	35 361	35 313	40 820	25 761	21 670	23 591	20 150
Mandarins									
Production	kt	94	91	79	78	98	97	121	102
Exports ^a	kt	16.12	16.32	27.13	23.55	29.63	28.57	27.37	19.61
– value	\$'000	22 318	25 584	37 137	40 012	49 206	43 282	40 594	30 134
Lemons and limes									
Production	kt	30	30	33	31	38	31	36	38
Exports ^a	kt	4.03	4.54	3.22	3.58	4.05	1.83	0.91	0.56
– value	\$'000	5 554	6 974	4 249	5 694	6 081	2 340	1 109	463
Grapefruit									
Production	kt	15	13	14	14	12	10	11	11
Exports ^a	kt	0.27	0.15	0.22	0.31	0.34	0.54	0.29	0.22
– value	\$'000	296	174	254	462	557	649	325	185

^a Fresh and dried.

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

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Summary of Australian statistics for fruit and vegetables

	Fruit			Vegetables		
	Production \$m ^a	Exports \$m	Imports \$m	Production \$m ^a	Exports \$m	Imports \$m
1981-82	593	na	na	554	na	na
1982-83	632	na	na	557	na	na
1983-84	655	na	na	739	na	na
1984-85	797	na	na	629	na	na
1985-86	837	na	na	714	na	na
1986-87	1 109	na	na	885	na	na
1987-88	1 004	na	na	928	na	na
1988-89	1 098	319	228	1 165	179	183
1989-90	1 176	310	223	1 328	184	249
1990-91	1 267	376	215	1 285	196	219
1991-92	1 599	454	290	1 290	235	238
1992-93	1 572	495	269	1 249	294	272
1993-94	1 478	495	290	1 444	346	305
1994-95	1 579	503	317	1 492	341	298
1995-96	1 709	563	362	1 616	380	309
1996-97	1 857	631	372	1 662	385	311
1997-98	1 819	606	391	1 812	398	338
1998-99	1 990	633	460	1 864	438	373
1999-00	1 976	662	471	2 004	446	374
2000-01	2 253	738	479	2 183	505	410
2001-02	2 333	852	503	2 269	583	451
2002-03	2 408	824	563	2 126	434	478
2003-04	2 350	681	586	2 356	394	497
2004-05	2 770	781	701	2 134	337	487
2005-06	2 862	815	737	2 200	361	504

^a Gross value of production. na Not available.

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

153 Summary of Australian statistics for meat ^a

	Consumption per person								
	Cattle	Sheep	Total	Total	Total	Beef	Lamb	Pig	Poultry
	numbers b	numbers b	red meat	red meat	domestic	and	and		
	million	million	production c	exports d	consumption	veal e	mutton	meat	meat
			kt	kt	kt	kg	kg	kg	kg
1960	16.50	155.2	1 426	330	1 024	38.7	46.0	8.3	4.4
1961	17.33	152.7	1 361	461	987	42.4	44.5	9.4	4.4
1962	18.03	157.7	1 545	556	1 030	45.3	42.4	8.8	4.4
1963	18.55	158.6	1 647	597	1 069	47.5	40.6	8.5	4.4
1964	18.40	165.0	1 718	653	1 078	45.0	38.6	8.8	5.2
1965	18.19	170.6	1 717	622	1 080	42.0	37.6	9.5	6.2
1966	17.39	157.6	1 706	564	1 047	38.6	38.0	9.8	7.4
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	24.50	131.4	2 172	939	1 232	48.2	19.2	15.3	20.2
1982	23.89	135.0	2 473	1 184	1 294	50.1	20.7	14.8	19.4
1983	21.86	130.5	2 131	948	1 218	43.0	20.9	15.9	20.2
1984	21.54	135.1	2 003	709	1 301	45.0	22.5	16.4	19.8
1985	22.15	145.7	2 162	859	1 288	40.7	24.7	16.7	21.6
1986	22.80	150.4	2 341	1 032	1 306	42.0	22.9	17.2	22.8
1987	21.31	153.2	2 452	1 131	1 314	40.5	23.3	17.3	23.2
1988	21.24	156.5	2 404	1 102	1 312	40.6	21.6	17.8	23.9
1989	21.80	164.9	2 465	1 087	1 387	42.7	22.7	18.0	24.3
1990	22.53	173.8	2 705	1 312	1 375	40.0	22.8	18.6	25.1
1991	23.66	166.6	2 739	1 381	1 385	39.5	22.8	18.7	25.4
1992	23.88	151.0	2 827	1 499	1 339	37.2	20.5	19.7	25.4
1993	24.06	140.5	2 805	1 481	1 323	36.8	19.4	19.3	26.8
1994	25.76	132.6	2 863	1 479	1 426	39.0	21.2	20.2	27.6
1995	25.73	120.9	2 656	1 386	1 285	34.7	16.8	20.1	27.1
1996	26.38	121.1	2 634	1 304	1 353	39.1	16.7	18.7	27.9
1997	26.69	120.2	2 883	1 500	1 411	40.8	16.9	19.0	29.3
1998	26.85	117.5	2 973	1 612	1 384	37.9	16.9	19.5	31.1
1999	26.04	115.5	2 982	1 655	1 370	37.3	16.0	19.4	31.3
2000	27.59	118.6	3 132	1 780	1 426	37.0	17.8	20.0	33.2
2001	27.72	110.9	3 136	1 870	1 332	33.9	16.2	19.0	32.7
2002	27.87	106.2	3 131	1 831	1 396	35.9	14.7	20.9	36.3
2003	26.66	99.3	2 960	1 656	1 418	36.5	12.9	22.5	35.1
2004	27.47	101.3	3 081	1 790	1 413	36.1	12.1	22.7	36.8
2005	27.78	101.1	3 097	1 804	1 462	35.6	12.7	24.2	38.4

^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 c/kg	Ox c/kg	Cow c/kg	Weighted average c/kg	Lamb c/kg	Mutton c/kg	Pig c/kg
1979	152.9	148.7	136.2	144.2	112.4	69.7	145.8
1980	150.8	149.0	131.8	141.4	130.4	72.1	142.2
1981	140.3	126.1	111.6	123.7	128.8	69.2	170.9
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	179.7	34.3	213.0
1994	257.8	243.9	187.0	222.6	145.5	34.1	202.3
1995	238.3	216.9	169.2	201.8	182.1	68.4	218.1
1996	185.4	163.2	129.9	155.3	230.7	67.7	247.4
1997	190.0	184.7	135.3	162.6	203.5	75.2	218.6
1998	208.2	203.3	158.3	181.0	177.0	79.3	179.9
1999	233.1	215.4	183.5	204.3	207.0	62.9	216.0
2000	261.8	246.1	219.7	237.1	173.6	71.8	249.1
2001	331.0	315.5	289.4	307.2	262.7	145.7	276.2
2002	289.3	275.4	235.3	259.1	338.8	169.9	260.3
2003	318.7	309.3	249.9	281.3	387.0	203.5	232.7
2004	343.7	324.0	281.1	309.1	365.8	179.0	229.4
2005	367.6	329.0	285.2	320.7	341.2	168.5	233.5
2005							
January	371.3	328.6	287.9	322.2	343.0	146.9	259.3
February	364.5	326.4	285.1	318.4	344.3	158.9	254.3
March	359.1	318.1	275.5	310.8	332.3	154.1	245.7
April	343.6	311.3	264.8	298.5	328.0	157.4	233.6
May	339.0	313.4	263.9	295.7	334.0	168.2	219.4
June	343.0	311.9	262.5	297.9	358.5	183.0	214.1
July	376.8	348.2	298.6	336.6	377.8	217.0	215.8
August	401.4	354.7	313.4	351.9	371.2	200.4	223.3
September	401.4	348.6	308.5	346.7	345.1	174.3	230.6
October	385.8	331.6	290.5	329.8	315.9	155.7	234.2
November	369.0	332.4	291.8	326.6	312.9	153.5	235.7
December	356.3	323.0	280.0	313.8	332.0	152.9	236.3
2006							
January	344.1	309.1	262.4	298.1	343.4	134.0	237.0
February	352.0	324.6	281.0	312.6	355.4	149.1	236.4
March	356.0	330.5	285.0	317.0	342.5	164.5	237.4
April	354.5	328.3	282.0	313.5	326.5	175.8	234.9
May	352.7	331.3	284.4	313.7	325.6	192.4	233.7
June	347.1	326.3	274.1	307.2	332.4	193.1	229.7

^a Prices are on an estimated dressed weight basis and, with the exception of 'yearling', are for export quality stock: ox, 301–350 kilograms; cow, 201–260 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; and pig, 60–73 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; ABARE.

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Australian retail prices of meat

	Beef ^a c/kg	Lamb ^a c/kg	Pork ^a c/kg	Chicken ^b c/kg
1981	542.0	368.0	439.3	235.0
1982	545.8	366.5	490.9	248.0
1983	619.3	384.5	505.9	258.3
1984	653.7	398.4	507.7	254.6
1985	682.6	396.1	537.9	269.5
1986	708.3	433.1	556.9	275.2
1987	747.0	481.6	586.6	288.6
1988	814.4	519.6	621.9	285.7
1989	908.9	554.4	679.9	311.3
1990	961.6	582.6	700.2	310.1
1991	974.0	570.7	710.0	302.6
1992	963.7	551.8	698.7	298.2
1993	963.7	620.8	716.7	295.6
1994	997.4	611.0	719.6	301.0
1995	1 008.0	655.0	732.2	303.8
1996	991.0	708.8	771.7	333.5
1997	978.0	704.7	798.1	365.9
1998	982.3	696.1	773.7	344.3
1999	1 010.8	723.3	807.7	356.6
2000	1 061.0	724.3	850.1	355.7
2001	1 226.2	857.8	945.6	363.8
2002	1 320.7	982.8	1 024.8	388.4
2003	1 367.4	1 097.2	1 021.3	387.2
2004	1 400.3	1 159.2	1 025.5	394.3
2005	1 506.4	1 189.0	1 140.5	385.1
2002				
March	1 328.2	962.1	1 047.4	399.1
June	1 339.5	1 007.9	1 021.7	395.1
September	1 298.1	979.8	1 016.1	382.6
December	1 316.9	981.5	1 014.0	376.9
2003				
March	1 325.4	1 025.6	1 020.3	384.2
June	1 360.3	1 075.4	1 016.8	397.2
September	1 390.4	1 153.3	997.3	375.0
December	1 393.3	1 134.4	1 050.9	392.5
2004				
March	1 396.1	1 144.7	1 045.3	392.3
June	1 394.2	1 140.7	1 026.5	389.3
September	1 381.0	1 195.7	959.7	395.9
December	1 430.0	1 155.6	1 070.4	399.8
2005				
March	1 474.3	1 171.7	1 095.4	398.6
June	1 509.2	1 157.3	1 156.7	391.1
September	1 506.4	1 228.9	1 173.4	380.8
December	1 535.6	1 198.0	1 136.5	369.8
2006				
March	1 551.6	1 204.3	1 175.5	359.0
June	1 564.8	1 231.8	1 144.8	355.0

^a Price estimates are formed by indexing forward from actual average prices of beef, lamb, mutton, pork and chicken 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 Retail frozen.

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

meat – general

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
	US\$/kg cif	Ac/kg fas	Ac/kg fob	Ac/kg fob	Ac/kg fob	Ac/kg fob	Ac/kg fob
1981	245.0	175.0	217.0	274.0	181.0	168.0	na
1982	230.0	190.0	230.0	285.0	174.0	164.0	na
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	336.9	477.2	172.8	188.9	238.4
1989	270.7	295.0	339.4	527.3	189.7	186.3	231.2
1990	266.5	301.0	366.9	523.5	241.2	176.9	223.2
1991	265.5	304.4	344.1	571.5	190.3	199.2	229.1
1992	247.5	301.4	335.6	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	308.7	576.3	270.8	192.5	259.6
1995	194.5	228.5	269.5	582.1	310.0	213.1	277.0
1996	173.8	188.7	228.3	473.3	298.2	217.3	327.6
1997	188.4	218.9	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	189.9	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	218.6	314.2	339.7	636.5	782.5	320.4	548.6
2003	212.1	309.4	315.0	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	366.9	708.5	519.0	362.1	547.5
2004							
March	245.5	287.8	363.9	705.8	604.9	348.1	507.9
June	264.4	336.6	386.5	727.2	882.9	347.0	592.8
September	297.2	386.6	380.5	711.3	804.0	356.1	511.1
December	283.2	342.6	382.7	697.6	774.0	347.2	546.4
2005							
March	279.7	325.6	372.7	718.7	420.3	351.4	609.0
June	283.5	335.3	385.8	706.7	500.7	375.5	623.0
September	287.2	344.2	359.3	706.8	566.6	374.5	476.9
December	277.2	338.5	349.9	701.6	588.3	346.7	481.3
2006							
March	272.6	335.2	356.8	705.0	908.4	359.8	514.8
June	268.8	324.3	356.1	707.8	465.9	332.5	526.9

^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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity									
Beef and veal ^b	kt	883	852	959	902	902	860	948	892
Mutton ^b	kt	155	171	180	158	119	120	138	146
Lamb ^b	kt	85	99	115	109	98	109	123	144
Pig meat ^b	kt	16	39	44	59	63	51	43	43
Poultry meat ^b	kt	19	17	21	21	23	20	20	22
Live sheep ^c	'000	4 959	4 859	5 936	6 443	5 843	3 843	3 233	4 248
Live cattle ^c	'000	713	846	846	797	973	581	574	549
Value ^d									
Beef and veal ^e	\$m	2 863	3 119	4 007	4 189	3 756	3 793	4 584	4 272
Mutton ^e	\$m	309	326	416	490	346	379	418	431
Lamb ^e	\$m	305	369	508	626	554	636	700	782
Pig meat	\$m	71	159	186	265	256	181	150	140
Poultry meat	\$m	23	21	26	26	22	20	20	21
Live sheep ^c	\$m	182	180	258	392	408	266	207	291
Live cattle ^c	\$m	343	433	482	526	567	318	374	358
Total	\$m	4 095	4 606	5 882	6 514	5 910	5 594	6 452	6 295
Unit value ^d									
Beef and veal	\$/kg	3.24	3.66	4.17	4.65	4.16	4.41	4.83	4.79
Mutton	\$/kg	2.01	1.92	2.31	3.09	2.92	3.16	2.93	2.98
Lamb	\$/kg	3.60	3.71	4.42	5.75	5.66	5.86	5.69	5.42
Pig meat	\$/kg	4.31	4.05	4.22	4.50	4.08	3.58	3.44	3.24
Poultry meat	\$/kg	1.21	1.22	1.23	1.23	0.95	0.98	1.01	0.97
Live sheep	\$/head	36.64	37.12	43.41	60.79	69.87	69.34	63.92	68.61
Live cattle	\$/head	476.89	514.68	575.88	664.48	582.56	549.78	652.47	659.60

^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.

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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
1960	na	na	na	na	na	na
1961	941	994	27.7	4.9	24.7	8.9
1962	957	997	29.2	5.0	26.1	9.2
1963	970	999	30.9	5.0	28.0	9.7
1964	988	1 013	31.3	5.0	28.7	10.1
1965	1 008	1 030	31.9	5.0	31.3	11.0
1966	1 028	1 040	33.6	5.1	32.4	11.7
1967	1 050	1 058	35.3	5.3	33.9	12.4
1968	1 063	1 072	37.0	5.4	34.4	12.8
1969	1 070	1 079	37.9	5.4	34.1	13.7
1970	1 082	1 061	38.4	5.5	35.8	15.1
1971	1 097	1 064	38.0	5.6	39.4	15.7
1972	1 120	1 036	38.5	5.7	40.6	16.8
1973	1 139	1 015	38.8	5.4	40.4	17.6
1974	1 166	1 027	41.8	5.1	42.4	18.2
1975	1 187	1 046	43.7	5.3	41.6	18.6
1976	1 199	1 046	46.1	5.3	40.7	20.0
1977	1 204	1 036	46.4	5.3	42.9	21.2
1978	1 206	1 048	46.9	5.4	45.6	22.7
1979	1 210	1 067	45.7	5.4	50.1	24.4
1980	1 216	1 096	45.5	5.6	52.7	25.9
1981	1 228	1 110	45.9	5.9	53.0	27.5
1982	1 243	1 129	45.8	5.9	53.1	28.3
1983	1 248	1 124	47.0	6.1	55.4	29.1
1984	1 254	1 119	48.4	6.1	57.4	29.7
1985	1 259	1 119	49.2	6.2	59.9	31.1
1986	1 266	1 126	50.9	6.2	61.4	33.2
1987	1 266	1 142	51.0	6.4	63.5	35.7
1988	1 271	1 164	51.4	6.6	67.0	37.5
1989	1 287	1 198	51.7	6.8	68.0	38.7
1990	1 296	1 209	52.9	7.0	69.8	40.9
1991	1 297	1 185	53.6	7.1	70.8	42.9
1992	1 299	1 162	52.4	7.0	72.9	45.1
1993	1 298	1 122	51.9	7.1	75.3	47.7
1994	1 316	1 111	47.3	7.2	77.5	51.5
1995	1 325	1 074	54.2	7.2	80.1	54.7
1996	1 319	1 060	54.7	7.0	79.3	56.4
1997	1 310	1 043	55.4	7.2	83.1	59.8
1998	1 310	1 046	55.3	7.3	88.4	62.4
1999	1 313	1 053	56.3	7.4	89.3	65.4
2000	1 316	1 054	56.9	7.6	90.1	69.2
2001	1 322	1 034	56.1	7.6	92.1	71.9
2002	1 336	1 030	57.8	7.7	95.2	75.1
2003	1 351	1 039	58.5	7.9	98.5	76.6
2004	1 365	1 060	59.7	8.2	100.5	79.1
2005	1 372	1 079	60.2	8.5	102.4	81.4

na Not available.

Sources: FAO, *FAOSTAT Agriculture Database*, Rome; UK Meat and Livestock Commission, *International Meat Market Review*, Economics Information Services, London.

159 Summary of US meat statistics

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Cattle numbers ^a	million	99.7	99.1	98.2	97.3	96.7	96.1	94.9	95.4
Beef and veal ^b									
Production ^c	kt	11 804	12 124	12 298	11 983	12 427	12 039	11 261	11 317
Imports	kt	1 199	1 303	1 375	1 435	1 459	1 363	1 669	1 632
Exports and shipments	kt	985	1 094	1 120	1 029	1 110	1 142	209	313
Total consumption	kt	12 051	12 325	12 502	12 351	12 737	12 340	12 667	12 666
Consumption per person	kg	43.3	43.8	44.0	43.0	43.9	42.2	42.9	42.5
Pork ^b									
Production ^c	kt	8 623	8 758	8 596	8 691	8 929	9 056	9 312	9 392
Imports	kt	320	375	438	431	486	538	499	464
Exports and shipments	kt	558	582	584	707	731	779	989	1 207
Total consumption	kt	8 305	8 594	8 455	8 389	8 685	8 816	8 817	8 671
Consumption per person	kg	29.8	30.6	29.8	29.2	30.0	30.1	29.8	29.1
Poultry ^d									
Production ^c	kt	14 890	15 739	16 122	16 523	17 024	17 225	17 727	18 333
Exports and shipments	kt	2 180	2 252	2 433	2 741	2 379	2 451	2 371	2 619
Total consumption	kt	12 714	13 474	13 697	13 827	14 586	14 841	15 353	15 675
Consumption per person	kg	45.7	47.9	48.2	48.2	50.3	50.7	52.0	52.6

^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	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Livestock numbers ^b									
Cattle	million	8.9	8.8	9.0	9.3	9.7	9.7	9.6	9.5
– dairy cattle	million	4.5	4.5	4.8	5.0	5.2	5.1	5.2	5.1
– beef cattle	million	4.3	4.2	4.2	4.2	4.5	4.6	4.4	4.4
Sheep	million	46.8	46.0	45.7	45.4	44.0	39.7	39.3	40.1
Production ^c									
Beef and veal	kt	634.1	561.7	567.6	591.5	576.3	660.2	709.6	651.8
Lamb	kt	416.5	401.0	427.8	433.5	413.8	436.0	411.3	437.6
Mutton	kt	128.6	116.6	104.9	128.7	107.2	111.0	107.0	105.2
Exports of meat ^d									
Beef and veal	kt	373.6	292.2	313.9	326.3	332.3	353.8	416.5	399.2
Lamb	kt	282.0	271.1	296.5	301.9	286.5	322.4	294.6	300.0
Mutton	kt	59.7	54.4	50.4	58.8	52.0	69.4	57.0	60.3
Consumption per person ^{ce}									
Beef and veal	kg	40.3	31.3	31.0	27.2	26.4	30.0	31.9	29.2
Lamb	kg	10.0	7.7	10.2	10.0	10.3	10.0	9.4	10.0
Mutton	kg	8.0	6.6	7.5	7.1	5.5	4.4	3.5	3.0

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

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Gross value of Australian livestock slaughterings

	2000-01 \$m	2001-02 \$m	2002-03 \$m	2003-04 \$m	2004-05 \$m	2005-06 \$m
Livestock slaughterings						
Cattle and calves a	5 948.8	6 616.9	5 844.6	6 341.1	7 454.7	7 217.7
Cattle exported live b	481.8	525.5	566.5	317.7	374.1	357.8
Sheep c	367.6	544.5	467.7	454.2	416.3	442.1
Lambs cd	776.5	1 181.4	1 160.9	1 318.1	1 326.0	1 424.9
Sheep exported live b	257.7	391.7	408.2	266.5	206.7	291.5
Pigs	822.3	967.7	911.3	878.9	906.0	867.3
Poultry	1 060.2	1 174.9	1 280.5	1 280.8	1 303.7	1 363.0
Total	9 737.8	11 434.5	10 676.0	10 896.0	12 030.2	12 007.1

a Includes dairy cattle slaughtered. **b** Excludes animals for breeding. **c** Excludes skin values. **d** 18–20 kilograms dressed weight.
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 '000	Average weight b kg	Production b kt	Exports bc kt	Consumption bd kt
1960	4 403	168	740	na	na
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	890	666
1989	7 483	210	1 573	872	710
1990	8 253	211	1 738	1 064	676
1991	8 427	208	1 749	1 080	675
1992	8 731	210	1 834	1 191	645
1993	8 343	217	1 814	1 169	645
1994	8 366	221	1 845	1 164	692
1995	7 906	217	1 719	1 106	622
1996	7 968	218	1 734	1 028	711
1997	9 148	212	1 939	1 192	751
1998	9 308	213	1 987	1 284	705
1999	8 756	227	1 991	1 290	703
2000	8 734	235	2 053	1 350	705
2001	8 764	237	2 079	1 427	653
2002	9 050	231	2 090	1 390	701
2003	8 906	224	1 998	1 280	720
2004	8 803	240	2 113	1 398	721
2005	8 466	247	2 090	1 380	718

a Includes calves. **b** Carcass weight. **c** Includes canned and miscellaneous product. **d** Apparent consumption. **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 '000	Victoria '000	Queensland '000	South Australia '000	Western Australia '000	Tasmania '000	Northern Territory '000	Australian Capital Territory '000	Australia '000
Adult female beef cattle									
1996	2 963	1 287	4 775	534	934	233	848	7	11 667
1997	3 039	1 286	4 958	528	928	242	892	7	11 879
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	2 814	1 247	5 844	630	1 092	238	1 064	5	12 935
2006	na	na	na	na	na	na	na	na	na
Total beef cattle and calves									
1996	6 019	2 714	9 928	1 069	1 803	521	1 502	13	23 569
1997	6 118	2 627	10 130	1 024	1 787	515	1 609	13	23 737
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	22 820
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	5 428	2 505	11 511	1 107	1 889	534	1 756	9	24 725
2006	na	na	na	na	na	na	na	na	25 510
Total dairy cattle and calves									
1996	371	1 682	286	150	121	197	1	0	2 808
1997	393	1 784	292	157	122	211	0	0	2 958
1998	429	1 836	305	162	124	218	1	0	3 076
1999	445	1 945	304	177	114	233	1	0	3 218
2000	440	1 893	305	189	106	206	1	0	3 139
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	405	1 897	223	159	118	187	0	0	3 056
2006	na	na	na	na	na	na	na	na	3 050
Total cattle and calves									
1996	6 390	4 396	10 214	1 219	1 924	718	1 503	14	26 377
1997	6 511	4 411	10 415	1 181	1 909	725	1 530	13	26 695
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	5 833	4 402	11 734	1 266	2 007	721	1 756	9	27 782
2006	na	na	na	na	na	na	na	na	28 500

^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. **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; ABARE.

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

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Beef and veal									
Americas									
Canada	kt	38.6	43.3	41.5	50.9	82.9	29.0	7.5	7.6
United States	kt	285.2	291.1	352.3	397.7	385.9	367.9	347.2	317.5
Asia									
Chinese Taipei	kt	33.7	34.7	28.6	29.1	34.4	31.1	26.5	30.3
Hong Kong, China	kt	6.2	3.2	3.6	3.1	2.9	2.1	2.4	1.8
Indonesia	kt	1.7	11.6	13.1	9.6	14.6	13.0	7.1	8.8
Japan	kt	320.9	313.3	325.7	319.1	237.0	279.3	393.5	405.1
Korea, Rep. of	kt	33.5	77.9	73.3	56.8	80.2	62.3	93.3	106.4
Malaysia–Singapore	kt	11.0	10.6	9.4	8.8	11.3	10.2	6.9	4.2
Philippines	kt	20.2	20.4	14.3	19.7	12.9	8.6	2.1	3.0
Europe									
European Union b	kt	11.0	8.9	5.6	6.5	6.5	5.5	6.7	6.5
CIS	kt	24.5	8.4	1.4	5.3	1.4	0.3	0.4	0.5
Eastern Europe	kt	18.7	2.5	2.1	0.4	3.0	1.4	0.4	0.1
Middle East									
Kuwait	kt	1.4	0.5	0.1	1.1	0.4	2.5	0.7	0.2
Saudi Arabia	kt	2.6	1.0	0.5	5.0	2.3	1.8	0.7	0.3
United Arab Emirates	kt	1.6	0.6	0.9	2.0	1.7	1.1	1.2	1.3
Oceania									
New Zealand	kt	1.8	1.6	3.1	1.4	6.8	3.5	2.3	2.0
Pacific Isles	kt	3.1	2.1	2.3	2.5	2.7	2.1	1.7	1.5
Papua New Guinea	kt	7.0	8.2	7.1	4.8	4.3	2.3	2.5	2.2
Total beef and veal	kt	855.3	868.0	901.6	946.6	920.4	840.9	913.8	909.4
Live cattle									
Slaughter cattle									
Asia									
Indonesia	'000	41.2	159.5	296.7	287.7	425.6	375.8	356.8	348.0
Japan	'000	17.0	12.4	14.4	17.4	14.0	21.0	17.1	24.5
Malaysia	'000	42.7	65.2	56.5	77.5	90.9	86.4	47.4	38.1
Philippines	'000	215.9	266.1	223.8	97.4	113.1	74.5	46.7	20.9
Middle East									
Egypt	'000	119.6	240.5	207.6	203.2	143.9	7.6	0.0	7.0
Israel	'000	8.7	8.7	15.8	32.6	47.8	43.2	20.9	32.0
Jordan	'000	18.1	37.6	40.7	13.2	4.4	23.1	34.2	17.0
Saudi Arabia	'000	0.0	0.0	0.0	20.8	54.3	15.7	0.0	17.5
Total	'000	597.0	833.7	887.0	797.9	951.1	683.7	551.5	531.1
Breeding cattle	'000	24.1	10.6	9.0	24.6	16.8	84.9	66.8	41.7
Total live cattle	'000	621.1	844.2	896.0	822.5	967.9	768.6	618.3	572.8

a Fresh, chilled or frozen, in shipped weight. **b** Regarded as fifteen countries to May 2004, then twenty five countries from June 2004.
Source: Department of Agriculture, Fisheries and Forestry, *Export Statistics, Livestock Exports*, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra.

meat – beef and veal

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

	1998 \$m	1999 \$m	2000 \$m	2001 \$m	2002 \$m	2003 \$m	2004 \$m	2005 \$m
Beef and veal								
Americas								
Canada	104.6	128.0	148.1	204.4	320.2	110.9	38.1	32.6
United States	735.2	805.1	1 172.8	1 699.7	1 593.6	1 332.3	1 374.4	1 186.4
Asia								
Chinese Taipei	108.2	123.2	116.7	132.6	152.3	126.7	124.2	148.3
Hong Kong, China	23.6	16.6	18.2	17.8	17.1	15.0	27.3	18.7
Indonesia	6.1	33.3	40.8	37.2	46.1	38.4	26.7	33.6
Japan	1 312.4	1 369.7	1 537.3	1 728.2	1 237.7	1 384.4	2 189.8	2 244.8
Korea, Rep. of	87.6	201.9	221.7	228.9	320.4	250.7	434.4	494.8
Malaysia–Singapore	66.7	68.7	70.6	78.7	91.4	86.8	74.4	48.9
Philippines	40.4	38.5	34.3	55.8	36.1	23.0	4.3	5.9
Europe								
European Union ^a	58.6	61.3	37.4	48.4	53.5	49.2	62.8	56.8
CIS	58.2	18.1	3.8	14.4	2.9	0.7	2.0	4.6
Eastern Europe	43.6	6.9	6.3	1.2	9.1	4.5	1.3	0.4
Middle East								
Kuwait	3.6	1.6	0.3	4.6	1.8	9.8	3.4	1.0
Saudi Arabia	7.4	3.3	2.1	23.0	11.6	7.8	3.1	1.7
United Arab Emirates	5.4	2.5	4.4	11.6	10.9	7.8	12.0	13.7
Oceania								
New Zealand	4.5	5.0	11.1	6.3	25.6	15.9	9.8	8.8
Pacific Isles	6.2	4.1	5.2	7.2	7.4	5.4	4.5	4.0
Papua New Guinea	12.3	14.1	14.1	11.5	9.8	4.9	5.2	4.3
Total beef and veal	2 768.3	2 963.3	3 464.1	4 357.3	4 002.6	3 475.3	4 390.2	4 346.7
Live cattle ^b								
Asia								
Indonesia	18.0	68.5	143.1	171.8	254.0	203.4	207.3	209.1
Japan	11.6	7.8	9.8	12.7	11.2	16.6	14.6	20.5
Malaysia	15.3	29.9	25.7	38.5	45.1	38.9	25.2	20.1
Philippines	87.7	126.7	117.8	58.4	65.8	39.1	30.1	11.6
Middle East								
Egypt	61.6	131.2	129.7	153.8	94.9	5.0	0.0	3.8
Israel	5.7	3.8	9.0	15.4	23.9	22.8	11.9	20.6
Jordan	7.7	15.7	18.1	6.7	2.4	12.9	15.3	10.2
Libya	64.9	13.5	0.0	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	0.0	0.0	0.0	14.9	32.5	9.4	0.0	11.0
Total live cattle	280.3	409.2	471.7	514.4	580.8	376.5	327.7	337.1

^a Regarded as fifteen countries to May 2004, then twenty five countries from June 2004. ^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

	1998	1999	2000	2001	2002	2003	2004	2005
	million	million	million	million	million	million	million	million
Argentina	49.2	49.4	49.8	50.2	50.4	50.9	50.8	50.2
Australia ^b	26.9	26.0	27.6	27.7	27.9	26.7	27.5	27.8
Brazil	144.7	143.9	146.3	150.4	156.3	161.5	165.5	169.6
Canada	13.4	13.2	13.2	13.6	13.8	13.5	14.7	15.1
China ^c	121.8	124.4	127.0	128.7	128.2	130.8	134.7	137.8
European Union ^d	83.3	82.9	93.8	91.4	90.3	88.7	87.5	86.4
France	20.0	20.3	20.3	20.5	20.1	19.6	19.3	19.4
Germany	15.2	14.9	14.7	14.6	14.2	13.7	13.4	13.0
Italy	7.2	7.1	7.2	6.7	6.5	6.5	6.3	6.3
United Kingdom	11.5	11.4	11.1	10.6	10.3	10.5	10.6	10.4
Japan	4.7	4.7	4.6	4.5	4.6	4.5	4.5	4.4
New Zealand	8.9	8.8	9.0	9.3	9.7	9.7	9.6	9.5
Russian Federation	31.5	28.6	27.0	25.5	24.5	23.5	22.3	21.1
South Africa	13.7	13.8	13.6	13.5	13.5	13.6	13.5	13.5
Ukraine	12.6	11.7	10.6	9.4	9.4	9.1	7.7	7.0
United States	99.7	99.1	98.2	97.3	96.7	96.1	94.9	95.4
Uruguay	10.6	10.4	10.6	10.4	11.7	12.3	12.6	12.5
World	1 309.8	1 313.1	1 315.5	1 321.8	1 336.1	1 350.9	1 365.0	1 372.3

^a As close as possible to 1 January. ^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 fifteen countries to 1999, then twenty five countries from 2000. 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

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	2 600	2 840	2 880	2 640	2 700	2 800	3 130	3 200
Australia	1 987	1 991	2 053	2 079	2 090	1 998	2 113	2 090
Brazil	6 140	6 270	6 520	6 895	7 240	7 385	7 975	8 592
Canada	1 150	1 238	1 246	1 250	1 294	1 190	1 496	1 475
China ^b	4 799	5 054	5 328	5 488	5 846	6 305	6 759	7 140
Colombia	766	716	745	700	675	670	730	750
European Union ^c	7 624	7 569	8 224	8 084	8 145	8 061	8 007	7 770
France	1 632	1 609	1 528	1 566	1 640	1 632	1 565	1 529
Germany	1 367	1 374	1 304	1 362	1 316	1 226	1 258	1 145
Italy	1 111	1 164	1 152	1 133	1 134	1 127	1 148	1 180
United Kingdom	699	679	705	645	694	699	712	747
Japan	530	537	530	458	537	496	514	500
Mexico	1 800	1 900	1 900	1 925	1 930	1 950	2 099	2 125
New Zealand	634	562	568	592	576	660	710	652
Russian Federation	2 090	1 900	1 840	1 760	1 740	1 670	1 590	1 525
South Africa	539	584	630	665	645	613	655	643
United States	11 804	12 124	12 298	11 983	12 427	12 039	11 261	11 317
Uruguay	454	425	440	317	425	450	544	600
World	55 302	56 349	56 947	56 149	57 833	58 513	59 741	60 191

^a Carcass weight equivalent. ^b Excludes Hong Kong. ^c Regarded as fifteen countries to 1999, then twenty five countries from 2000. 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.

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

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Exports									
Argentina	458	303	359	357	169	348	386	623	759
Australia	1 192	1 284	1 290	1 350	1 427	1 390	1 280	1 398	1 380
Brazil	232	306	464	492	748	881	1 175	1 628	1 867
Canada	382	428	492	523	575	610	384	560	553
China ^b	101	91	57	54	60	44	43	61	91
European Union ^c	1 051	769	949	545	502	485	388	358	250
India	215	245	224	349	370	417	439	499	620
New Zealand	530	509	462	505	516	486	558	606	589
United States	969	985	1 094	1 120	1 029	1 110	1 142	209	313
Uruguay	251	218	189	236	145	262	325	410	460
Total	5 795	5 439	5 724	5 746	5 670	6 274	6 339	6 496	7 092
Imports									
Brazil	150	106	54	72	44	78	63	53	49
Canada	244	232	254	263	300	308	274	111	133
Chinese Taipei	85	82	94	83	78	89	98	80	92
Egypt	167	159	218	236	136	162	93	114	120
European Union ^c	459	414	457	368	358	461	463	584	625
Japan	954	989	1 007	1 067	1 002	712	851	647	700
Korea, Rep. of	226	125	242	324	246	430	444	218	243
Russian Federation	1 047	770	784	415	648	719	720	730	680
United States	1 063	1 199	1 303	1 375	1 435	1 459	1 363	1 669	1 632
Total	5 016	4 771	5 065	4 935	4 978	5 242	5 074	4 891	5 423

^a Carcass weight. ^b Excludes Hong Kong. ^c Excludes intra-EU trade. Regarded as fifteen countries to 1999, then twenty five countries from 2000.

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.

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Summary of Japanese beef and veal statistics

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Cattle numbers ^a									
Beef ^b	'000	2 848	2 842	2 823	2 806	2 838	2 805	2 788	2 747
Dairy ^c	'000	1 860	1 816	1 764	1 725	1 726	1 719	1 690	1 655
Total	'000	4 708	4 658	4 587	4 531	4 564	4 524	4 478	4 402
Cattle slaughterings									
Wagyu	'000	596.2	588.6	576.8	497.2	500.0	466.0	459.6	458.7
Dairy	'000	692.6	708.1	705.4	603.6	719.0	749.1	764.2	738.9
Calves	'000	10.5	9.7	6.4	5.5	4.6	8.7	10.6	8.4
Total	'000	1 299.3	1 306.4	1 288.6	1 119.0	1 238.1	1 237.7	1 253.9	1 225.1
Production ^d									
Wagyu beef	kt	241.3	240.0	236.2	205.5	217.1	188.4	190.9	192.5
Dairy beef	kt	278.6	289.6	288.0	247.9	313.6	300.5	313.7	297.7
Veal	kt	0.9	0.9	0.6	0.6	0.6	1.0	1.1	1.0
Total	kt	529.3	540.4	530.3	458.6	536.6	496.0	513.6	499.6
Imports									
Fresh or chilled beef and veal ^e									
Australia	kt	180.7	193.0	200.7	166.6	150.2	152.5	215.8	218.8
Canada	kt	2.4	3.4	5.4	5.6	4.3	1.1	0.0	0.1
New Zealand	kt	5.7	4.0	3.7	3.4	2.5	3.1	3.8	4.8
United States	kt	126.6	133.0	145.6	116.4	98.0	87.9	0.0	0.6
Other	kt	0.1	0.1	0.1	0.0	0.0	0.0	1.0	2.7
Total	kt	315.4	333.5	355.5	292.0	255.1	244.5	220.6	227.0
Frozen beef and veal ^e									
Australia	kt	129.8	121.2	129.3	118.3	112.0	141.7	194.0	186.9
Canada	kt	11.3	14.0	13.4	15.6	15.4	1.5	0.0	0.0
New Zealand	kt	13.2	11.3	10.0	11.9	8.7	18.2	31.0	34.9
United States	kt	193.5	194.5	202.7	168.9	142.1	113.1	0.0	0.0
Other	kt	1.6	2.3	7.9	0.5	0.4	0.6	3.2	8.5
Total	kt	349.4	343.3	363.3	315.2	278.7	275.1	228.3	230.3
Total beef and veal ^{ef}									
Australia	kt	310.5	314.2	330.0	284.9	262.3	294.1	409.8	405.7
Canada	kt	13.6	17.4	18.8	21.1	19.7	2.6	0.0	0.1
New Zealand	kt	18.8	15.3	13.8	15.3	11.2	21.2	34.8	39.8
United States	kt	320.1	327.5	348.2	285.3	240.1	201.0	0.0	0.7
Other	kt	2.8	3.6	9.0	0.6	0.4	0.6	4.2	11.1
Total	kt	665.9	678.0	719.8	607.2	533.8	519.6	448.8	457.3
Prices									
Wagyu steer ^g	¥/kg	1 766	1 720	1 677	1 561	1 462	1 848	2 002	2 074
Dairy steer ^h	¥/kg	748	686	836	698	482	689	857	898

^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.

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Summary of Korean beef and veal statistics

	Native cattle numbers a '000	Production b kt	Consumption		Average prices		
			Imported beef and veal b '000	Total beef and veal b kt	Farm c won/kg	Wholesale d won/kg	Retail e 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	na	7 711	10 875	37 304

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	1997	1998	1999	2000	2001	2002	2003	2004	2005
Pig meat										
Pig numbers a	'000	2 555	2 768	2 626	2 511	2 748	2 940	2 658	2 548	2 538
Breeding sows and gilts a	'000	303	320	309	293	332	356	352	318	329
Slaughterings	'000	4 899	5 212	5 037	5 014	5 172	5 603	5 723	5 440	5 372
Average slaughter weight b	kg	70.3	70.8	71.9	72.7	73.2	72.7	73.2	72.6	72.7
Production b	kt	344.2	369.0	362.2	364.4	378.5	407.3	418.9	394.8	390.3
Imports bc	kt	22.6	19.6	48.7	72.0	64.3	91.6	111.2	126.2	161.6
Exports bc	kt	16.5	25.1	45.1	55.5	77.0	91.1	87.1	69.2	63.8
Total consumption bd	kt	349.3	363.8	365.2	380.9	365.9	407.8	442.9	451.9	488.2
Consumption per person bc	kg	19.0	19.5	19.4	20.0	19.0	20.9	22.5	22.7	24.2
Poultry meat e										
Slaughterings	million	356.9	372.8	382.1	401.6	397.2	428.2	418.3	435.6	432.9
Average dressed weight b	kg	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.9
Production b	kt	557.4	602.1	613.8	657.5	662.0	736.6	719.3	758.5	802.7
Exports b	kt	17.8	22.9	24.0	23.7	30.6	27.9	27.1	24.6	29.0
Total consumption d	kt	539.6	579.2	589.8	633.9	631.4	708.7	692.3	733.9	773.7
Consumption per person	kg	29.3	31.1	31.3	33.2	32.7	36.3	35.1	36.8	38.4

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
1993	823	434	622	307	438	45	3	na	2 673
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	732	524	666	266	335	12	2	na	2 538
2006	na	na	na	na	na	na	na	na	na

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

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Pig meat								
Australia	369	362	364	379	407	419	395	390
Canada	1 394	1 564	1 640	1 731	1 854	1 882	1 936	1 915
China ^b	38 837	40 056	40 314	41 845	43 266	45 186	47 016	49 685
Chinese Taipei	892	822	921	962	935	893	898	920
Denmark	1 629	1 642	1 625	1 716	1 759	1 762	1 810	1 800
France	2 328	2 353	2 312	2 315	2 346	2 339	2 293	2 257
Germany	3 834	4 103	3 982	4 074	4 110	4 323	4 366	4 505
Netherlands	1 725	1 711	1 623	1 432	1 377	1 253	1 299	1 299
Russian Federation	1 510	1 490	1 500	1 560	1 630	1 710	1 725	1 755
United States	8 623	8 758	8 596	8 691	8 929	9 056	9 312	9 392
Poultry meat								
Australia	602	614	658	662	737	719	758	803
Brazil	4 605	5 641	6 117	6 732	7 631	7 845	8 648	9 625
Canada	937	986	1 029	1 076	1 079	1 077	1 091	1 155
China ^b	8 120	8 550	9 269	9 278	9 558	9 898	9 998	10 200
France	2 293	2 188	2 221	2 215	2 105	2 015	1 976	1 971
Italy	1 150	1 133	1 089	1 135	1 169	948	983	1 000
Japan	1 097	1 078	1 091	1 074	1 107	1 127	1 124	1 165
Russian Federation	289	358	387	437	509	562	665	757
Thailand	930	980	1 070	1 230	1 275	1 340	900	950
United States	14 890	15 739	16 122	16 523	17 024	17 225	17 727	18 333

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

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

174 Volume of world pig meat trade for selected countries ^a

	1997	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports ^b									
Australia	17	25	45	55	77	91	87	69	64
Canada	420	433	554	660	728	864	975	972	1 083
China ^c	140	143	75	73	139	216	282	383	331
Chinese Taipei	70	28	0	0	0	0	0	0	0
European Union ^d	949	1 034	1 756	1 522	1 135	1 158	1 234	1 463	1 380
United States	473	558	582	584	707	731	779	989	1 207
Imports ^b									
Australia	23	20	49	72	64	92	111	126	162
Hong Kong, China	171	207	217	247	260	275	302	332	305
Japan	786	777	919	995	1 068	1 162	1 133	1 302	1 339
European Union ^d	62	44	20	19	22	17	30	20	19
United States	288	320	375	438	431	486	538	499	464

^a Carcass weight equivalent. ^b Excludes intra-EU trade. ^c Excludes Hong Kong. ^d Regarded as fifteen countries to 1999, then twenty five countries from 2000.

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

	Slaughtering '000	Average weight ^a kg	Production ^a kt	Exports ^{ab} kt	Apparent Consumption ^a kt
Mutton					
1982	14 016	19.6	274.2	205.5	54.7
1983	9 719	19.1	186.0	144.8	66.8
1984	9 306	20.4	189.6	97.1	93.7
1985	11 742	20.1	236.4	125.6	110.4
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	155.1	109.7
1989	13 698	20.6	282.6	158.1	123.0
1990	17 254	20.7	358.0	192.8	142.7
1991	18 750	21.0	394.6	248.6	160.4
1992	18 186	20.7	376.6	245.0	131.0
1993	18 047	21.5	387.9	240.8	143.0
1994	17 991	20.9	375.3	241.5	155.0
1995	15 228	20.5	312.1	213.7	96.3
1996	14 447	21.1	304.1	200.3	106.7
1997	15 552	20.5	319.6	215.8	106.5
1998	15 316	20.6	316.2	216.4	100.6
1999	14 723	21.0	309.8	224.6	78.7
2000	16 379	21.1	345.7	248.2	97.5
2001	15 789	20.6	325.5	239.5	86.0
2002	14 873	20.0	296.7	228.6	71.2
2003	10 522	20.3	213.7	163.1	51.1
2004	11 145	20.9	233.0	185.1	38.0
2005	11 636	20.7	241.1	190.3	50.8
Lamb					
1982	17 127	17.0	290.3	34.3	257.2
1983	16 804	16.8	283.7	33.5	251.2
1984	16 542	17.2	284.6	29.7	253.6
1985	18 759	17.1	319.9	42.9	277.2
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	46.8	244.5
1989	16 864	17.8	299.6	43.9	255.0
1990	16 549	17.5	289.0	44.9	242.4
1991	15 818	17.4	274.3	45.0	229.7
1992	15 595	17.6	274.7	52.8	223.2
1993	14 668	17.6	258.7	60.4	196.2
1994	15 718	17.9	281.3	64.2	220.4
1995	14 680	17.9	263.0	57.0	205.8
1996	14 069	18.5	260.8	64.0	195.8
1997	14 924	18.8	279.9	76.0	203.9
1998	15 659	19.2	300.8	86.3	214.1
1999	16 346	19.5	318.8	95.4	222.7
2000	18 507	19.9	368.2	125.9	242.3
2001	17 897	19.7	352.6	126.1	226.5
2002	17 086	19.8	337.6	121.4	216.2
2003	16 430	20.1	329.8	125.9	203.9
2004	16 675	20.4	340.2	137.8	202.4
2005	18 228	20.6	374.8	169.9	204.9

^a Carcass weight. ^b Includes 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 million	Victoria million	Queensland million	South Australia million	Western Australia million	Tasmania million	Australian Capital Territory million	Australia million
Total sheep and lambs								
1986	52.840	26.892	14.311	17.938	33.213	5.083	0.122	150.399
1987	53.726	27.793	14.926	17.645	33.741	5.246	0.105	153.181
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	20.944	10.556	13.065	28.378	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	34.341	20.575	4.949	12.476	25.592	3.105	0.087	101.125
2006	35.450	20.012	6.080	12.263	23.149	3.087	0.088	100.130

^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.

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.

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

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Mutton ab									
Canada	kt	1.6	1.6	2.2	2.4	1.5	1.1	1.6	1.6
Chinese Taipei	kt	12.3	12.0	11.6	12.1	14.7	10.2	13.1	11.3
CIS	kt	5.2	0.6	1.6	1.6	2.3	0.5	1.9	5.4
European Union c	kt	10.9	8.0	8.5	7.6	8.6	5.5	8.4	9.0
Japan	kt	13.0	10.9	11.1	10.4	10.4	6.6	9.0	8.3
Korea, Rep. of	kt	1.4	1.4	1.0	1.0	1.2	0.8	1.0	1.1
Malaysia	kt	5.7	7.2	7.7	7.3	7.1	5.2	6.6	5.9
Papua New Guinea	kt	7.4	7.6	6.4	5.5	5.5	4.6	5.9	3.9
Saudi Arabia	kt	17.9	19.9	20.9	29.8	24.5	22.5	19.5	22.7
Singapore	kt	7.2	7.8	7.6	7.6	6.6	6.2	6.4	5.6
South Africa	kt	25.9	30.6	38.4	24.7	15.7	9.3	12.6	15.0
United States	kt	18.2	17.7	21.5	18.8	20.9	20.1	14.6	16.1
Other	kt	37.1	46.3	47.7	55.5	54.0	31.6	38.6	42.4
Total	kt	163.6	171.7	186.2	184.2	172.7	124.1	139.1	148.4
Lamb a									
European Union c	kt	9.7	11.8	14.5	14.4	14.1	16.4	14.9	12.3
Japan	kt	4.0	4.6	5.1	6.1	5.8	6.0	7.7	11.7
Papua New Guinea	kt	10.3	11.3	14.8	11.9	10.0	9.6	11.6	12.4
South Africa	kt	7.1	7.2	11.1	3.6	1.3	1.6	2.3	3.8
United Arab Emirates	kt	5.7	6.1	7.2	7.2	8.4	7.1	5.8	6.9
United States	kt	15.8	15.8	20.9	28.4	28.8	31.0	31.9	40.8
Other	kt	24.6	28.6	40.4	42.0	39.8	38.1	44.2	56.6
Total	kt	77.1	85.4	113.9	113.6	108.2	109.6	118.5	144.5
Live sheep									
Slaughter sheep	'000	4 895	4 960	5 321	6 699	6 024	4 738	3 394	4 184
Middle East	'000	4 858	4 892	5 282	6 596	5 931	4 634	3 356	4 144
Bahrain	'000	374	465	405	388	386	411	490	521
Egypt	'000	38	164	349	271	139	16	0	0
Jordan	'000	837	1 068	713	542	583	499	930	885
Kuwait	'000	1 434	1 250	1 473	1 540	1 570	1 499	1 260	891
Oman	'000	476	424	531	481	353	259	289	359
Qatar	'000	362	281	308	308	282	181	137	180
Saudi Arabia	'000	0	0	641	2 141	1 873	1 411	0	1 072
United Arab Emirates	'000	1 279	976	817	682	466	225	196	231
Other	'000	58	264	46	242	279	134	53	5
Singapore	'000	18	18	17	13	6	7	9	16
Other	'000	20	51	22	90	87	98	29	24
Breeding sheep	'000	85	65	100	112	39	4	3	1
Total	'000	4 980	5 026	5 421	6 812	6 063	4 742	3 397	4 185

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.

meat – sheep

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

	1998	1999	2000	2001	2002	2003	2004	2005
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Mutton a								
Canada	3.2	3.1	4.6	6.8	5.2	3.6	5.8	5.4
Chinese Taipei	29.1	27.6	26.3	36.9	48.9	32.2	41.9	34.8
CIS	9.2	0.9	3.1	3.7	5.4	1.3	5.8	13.5
European Union b	44.8	28.2	34.1	42.0	41.4	28.1	43.2	48.3
Japan	37.9	32.6	34.0	42.7	51.1	29.9	47.1	38.1
Korea, Rep. of	2.3	2.1	1.7	2.3	3.3	2.2	3.1	3.1
Malaysia	11.6	13.7	16.5	21.7	22.9	15.9	22.6	18.5
Papua New Guinea	8.0	7.5	6.2	7.4	6.6	6.1	5.1	5.2
Saudi Arabia	37.4	36.8	43.9	90.1	77.5	65.0	53.0	63.9
Singapore	16.4	16.5	18.4	23.4	23.2	20.4	22.0	18.6
South Africa	34.6	35.3	46.3	30.9	17.6	11.1	14.1	18.7
United States	40.3	37.1	43.9	56.4	64.7	67.9	48.6	44.4
Other	77.9	84.2	97.1	146.3	152.0	91.7	113.4	119.7
Total	352.5	325.8	376.3	510.6	519.7	375.3	425.9	432.0
Lamb								
European Union b	48.2	52.3	74.3	105.7	89.3	96.9	93.4	83.9
Japan	22.9	25.1	30.7	37.0	40.7	42.3	53.5	79.1
Papua New Guinea	12.0	13.0	16.0	18.0	15.7	14.4	17.3	19.4
South Africa	9.7	10.0	15.3	5.5	1.2	2.1	3.5	5.3
United Arab Emirates	18.1	18.2	24.2	27.4	31.6	29.9	27.0	32.8
United States	97.6	103.2	150.2	219.9	218.2	257.5	259.9	324.2
Other	87.2	96.3	137.0	165.7	169.5	159.7	184.7	233.1
Total	295.6	318.0	447.7	579.1	566.2	602.8	639.3	777.8
Live sheep c								
Middle East	187	177	204	349	395	330	223	275
Bahrain	13	15	13	20	25	29	33	35
Egypt	1	6	12	14	9	1	0	0
Jordan	32	35	24	28	39	35	58	53
Kuwait	53	47	61	79	101	105	84	60
Oman	18	17	20	26	24	19	20	25
Qatar	17	13	15	16	21	13	10	12
Saudi Arabia	0	0	27	120	127	104	0	74
United Arab Emirates	49	35	29	34	30	16	13	15
Other	2	3	2	5	7	8	3	4
Total	189	180	206	355	402	338	225	279

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

	1997	1998	1999	2000	2001	2002	2003	2004	2005
	million	million	million	million	million	million	million	million	million
Argentina	17.3	13.7	13.6	13.6	13.5	12.4	12.5	12.5	12.5
Australia	120.2	117.5	115.5	118.6	110.9	106.2	99.3	101.3	101.1
China ^b	114.1	121.0	127.4	131.1	133.2	135.9	143.8	155.7	170.9
France	10.5	10.3	10.2	9.6	9.4	9.3	9.3	9.2	9.2
Greece	8.9	9.0	8.9	9.0	9.0	9.2	8.9	9.0	9.0
India	56.5	57.1	57.6	59.6	60.4	61.1	61.8	62.5	62.5
Iran	52.1	53.2	53.9	53.9	53.9	53.9	53.9	54.0	54.0
Iraq	6.6	6.7	6.8	6.8	6.1	6.2	na	na	6.2
Italy	10.9	11.0	10.9	11.0	8.3	8.1	8.0	8.0	8.2
Morocco	15.3	14.8	16.6	17.3	17.2	16.3	16.7	17.0	17.0
New Zealand	47.0	46.0	45.7	42.3	40.0	39.5	39.3	40.0	39.9
Romania	9.7	8.9	8.4	8.1	7.7	7.3	7.3	7.5	7.4
Russian Federation	20.3	16.5	13.4	12.6	12.6	13.0	13.7	14.7	15.5
South Africa	29.2	29.3	28.7	28.6	28.8	28.9	28.8	29.1	25.3
Spain	24.0	24.9	24.2	24.0	24.4	23.8	23.5	24.0	22.5
Turkey	33.1	30.2	29.4	30.3	28.5	27.0	25.2	25.0	25.2
United Kingdom	30.0	31.1	29.7	42.3	36.7	35.8	35.7	35.5	35.3
United States	8.0	7.8	7.2	7.0	7.0	6.6	6.3	6.1	6.1
Uruguay	18.2	16.5	14.4	13.2	12.1	10.8	10.0	9.5	9.7
Total	1 043.1	1 046.0	1 052.6	1 053.9	1 033.6	1 030.5	1 038.7	1 059.8	1 079.0

^a Mostly at 1 December of year shown. Data for Australia are at 31 March. ^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

	1997	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	58	57	54	50	50	50	52	52	na
Australia	599	617	629	714	678	634	543	573	616
China ^b	1 190	1 239	1 335	1 440	1 540	1 680	1 892	2 240	2 420
France	141	144	138	133	134	128	129	124	na
Italy	72	73	73	65	62	58	58	56	na
New Zealand	524	547	519	533	562	521	546	509	520
Romania	59	60	54	49	48	51	62	68	na
Russian Federation	178	178	143	119	114	115	114	120	na
Spain	229	250	239	232	236	237	236	231	235
Ukraine	20	17	15	9	8	8	8	8	na
United Kingdom	321	351	361	383	267	307	306	314	310
United States	118	114	113	106	101	101	92	90	na
Uruguay	60	55	51	51	51	31	27	27	na
Total	7 170	7 298	7 345	7 554	7 603	7 715	7 928	8 225	na

^a Carcass weight. ^b Excludes Hong Kong. ^{na} Not available.

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.

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Volume of trade in mutton and lamb, by selected countries ^a

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Exports								
Australia ^b								
Mutton	216	225	248	240	229	163	185	190
Lamb	86	95	126	126	121	126	138	170
New Zealand ^c								
Mutton	92	83	79	92	82	92	58	57
Lamb	334	325	354	357	339	337	300	312
Imports								
European Union								
France	167	167	170	120	140	145	139	na
Germany	43	41	44	42	38	40	32	na
United Kingdom	116	113	109	93	102	103	116	na
Saudi Arabia								
Mutton and lamb from								
Australia ^b	27	32	32	41	38	30	23	27
New Zealand ^c	21	22	23	17	12	10	14	13
United States ^d	52	50	60	67	74	78	78	na

^a Carcass weight. ^b Includes canned and miscellaneous product. ^c For year ended 30 September. ^d Includes some goat meat. For year ended 30 September. **na** Not available.

Sources: Department of Agriculture, Fisheries and Forestry, *Export Statistics*, Canberra; Meat and Wool New Zealand, *Annual Report*, Wellington; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC; US Department of Agriculture, *Livestock, Dairy and Poultry Outlook, Electronic Outlook Report from the Economic Research Service*, Washington DC.

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Mutton								
Canada	0.5	0.3	0.2	0.3	0.3	0.4	0.7	0.9
European Union ^b	27.3	27.5	31.4	28.2	31.7	26.0	28.7	26.8
Japan	2.4	2.0	2.5	1.6	1.8	1.7	1.3	1.5
Korea, Rep. of	3.2	1.7	0.0	0.0	5.0	0.1	0.1	0.0
Papua New Guinea	2.7	1.2	1.2	1.4	1.6	0.9	1.7	1.1
Russian Federation	0.0	0.0	0.1	0.1	6.1	0.2	0.5	0.8
United States	1.2	0.8	0.4	1.0	1.2	3.2	1.1	0.9
Other	17.0	16.8	22.9	19.4	21.8	21.7	24.3	24.9
Total	54.4	50.4	58.8	52.0	69.4	57.0	60.3	56.8
Lamb								
Canada	6.6	6.7	9.0	9.5	10.7	9.7	9.0	9.1
Germany	23.2	23.0	26.7	23.9	26.9	20.5	21.5	23.0
Japan	9.4	7.9	8.6	7.9	8.9	11.3	11.0	13.1
Korea, Rep. of	0.7	0.6	0.5	0.5	0.6	1.1	1.2	0.7
Jordan	8.8	9.5	6.3	5.1	5.7	3.2	1.5	1.3
Papua New Guinea	8.8	12.6	9.8	4.9	5.5	7.5	7.6	7.9
Saudi Arabia	15.9	19.3	15.7	11.4	12.8	13.0	13.6	12.4
United Kingdom	68.1	70.6	66.4	61.5	69.3	69.8	68.3	75.4
United States	17.2	17.0	16.5	20.5	23.0	25.0	19.4	19.7
Other	112.5	129.4	142.3	141.3	159.1	133.4	147.0	148.8
Total	271.1	296.5	301.9	286.5	322.4	294.6	300.0	311.5

^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.

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Summary of Australian statistics for oilseeds ^a

	Area '000 ha	Yield t/ha	Production kt	Exports ^b kt	Domestic use ^c kt
1960-61	58	na	na	0	na
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	591
1990-91	599	1.74	1 040	187	853
1991-92	638	1.78	1 136	231	905
1992-93	541	1.60	864	241	623
1993-94	708	1.49	1 055	287	769
1994-95	807	1.14	920	252	668
1995-96	861	1.56	1 342	523	819
1996-97	1 048	1.69	1 776	523	1 253
1997-98	1 300	1.52	1 980	908	1 072
1998-99	2 123	1.47	3 113	1 707	1 406
1999-00	2 667	1.45	3 867	2 445	1 422
2000-01	2 144	1.45	3 098	2 189	909
2001-02	1 881	1.59	2 982	1 920	1 063
2002-03	1 627	0.94	1 523	887	636
2003-04	1 553	1.55	2 400	1 234	1 166
2004-05	1 839	1.44	2 641	1 261	1 380
2005-06	1 479	1.70	2 521	1 106	1 415

^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. **na** Not available.

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								
1999-00	'000 ha	515.5	304.1	0.9	878.8	210.3	1.1	1 910.6
2000-01	'000 ha	523.4	260.7	2.7	517.3	154.3	0.8	1 459.1
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	145.0	225.0	1.0	440.0	150.0	1.0	962.0
Yield								
1999-00	t/ha	1.6	1.4	1.1	1.1	1.2	1.6	1.3
2000-01	t/ha	1.6	1.5	0.5	0.7	1.3	1.7	1.2
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	1.8	1.5	1.0	1.4	1.5	1.0	1.5
Production								
1999-00	kt	826.8	423.3	1.0	963.2	243.9	1.7	2 459.9
2000-01	kt	835.7	379.7	1.3	352.5	204.4	1.3	1 775.0
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	1.0	488.0	242.0	1.0	1 542.0
2005-06	kt	253.8	337.5	1.0	630.0	217.5	1.0	1 440.8
Cottonseed								
Area								
1999-00	'000 ha	313.0	0.0	151.3	0.0	0.0	0.0	464.3
2000-01	'000 ha	327.9	0.0	199.4	0.0	0.0	0.0	527.3
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
Yield								
1999-00	t/ha	2.2	0.0	2.3	0.0	0.0	0.0	2.3
2000-01	t/ha	2.3	0.0	2.0	0.0	0.0	0.0	2.2
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
Production								
1999-00	kt	695.7	0.0	350.4	0.0	0.0	0.0	1 046.2
2000-01	kt	740.5	0.0	399.5	0.0	0.0	0.0	1 140.0
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

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								
1999-00	'000 ha	41.2	0.4	119.5	0.1	0.3	0.0	161.5
2000-01	'000 ha	17.6	0.2	64.3	0.0	0.2	0.0	82.3
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
Yield								
1999-00	t/ha	1.5	0.8	0.9	0.8	1.2	0.0	1.1
2000-01	t/ha	1.1	0.9	0.9	0.0	2.0	0.0	0.9
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
Production								
1999-00	kt	61.2	0.3	107.8	0.1	0.4	0.0	169.8
2000-01	kt	20.0	0.2	57.0	0.0	0.3	0.0	77.5
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
Peanuts								
Area								
1999-00	'000 ha	0.4	0.0	19.6	0.0	0.0	0.0	20.2
2000-01	'000 ha	0.5	0.0	16.7	0.0	0.0	0.0	17.4
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	0.0	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	24.5
Yield								
1999-00	t/ha	3.3	0.0	2.0	0.0	0.0	0.0	2.0
2000-01	t/ha	1.8	0.0	2.2	0.0	0.0	0.0	2.2
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	0.0	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	1.8
Production								
1999-00	kt	1.3	0.0	38.7	0.0	0.0	0.0	40.3
2000-01	kt	1.0	0.0	37.4	0.0	0.0	0.0	38.9
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	44.6

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								
1999-00	'000 ha	24.6	13.6	0.5	0.0	5.4	0.0	44.2
2000-01	'000 ha	7.4	3.9	0.6	0.0	2.2	0.0	14.0
2001-02	'000 ha	16.3	13.6	2.1	0.0	5.0	0.0	3.6
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
Yield								
1999-00	t/ha	0.8	0.8	0.6	0.0	0.9	0.0	0.8
2000-01	t/ha	0.7	0.5	0.8	0.0	0.6	0.0	0.6
2001-02	t/ha	0.0	0.1	0.0	0.0	0.2	0.0	0.5
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
Production								
1999-00	kt	20.6	10.8	0.3	0.0	5.0	0.0	36.7
2000-01	kt	5.2	2.0	0.5	0.0	1.3	0.0	9.0
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
Soybeans								
Area								
1999-00	'000 ha	32.0	1.4	22.4	0.0	0.0	0.0	55.8
2000-01	'000 ha	20.8	0.8	11.6	0.0	0.0	0.0	33.3
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
Yield								
1999-00	t/ha	1.8	2.2	1.9	0.0	0.0	0.0	1.9
2000-01	t/ha	1.6	1.7	1.2	0.0	0.0	0.0	1.5
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
Production								
1999-00	kt	59.1	3.2	41.7	0.0	0.0	0.0	104.0
2000-01	kt	32.8	1.4	14.4	0.0	0.0	0.0	48.6
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

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Total oilseeds								
Area								
1999-00	'000 ha	926.8	319.9	314.3	878.9	216.0	1.1	2 666.9
2000-01	'000 ha	897.6	266.1	295.3	517.3	156.6	0.8	2 143.5
2001-02	'000 ha	891.4	253.5	196.1	394.0	169.3	0.5	1 881.2
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	662.2	301.7	199.6	428.5	236.0	1.0	1 839.1
2005-06	'000 ha	470.3	242.3	159.5	440.5	155.9	1.0	1 479.0
Yield								
1999-00	t/ha	1.8	1.4	1.7	1.1	1.2	1.6	1.5
2000-01	t/ha	1.8	1.4	1.7	0.7	1.3	1.7	1.4
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	1.5
2004-05	t/ha	1.6	1.2	2.4	1.1	1.0	1.0	1.4
2005-06	t/ha	2.1	1.4	2.1	1.4	1.4	1.0	1.7
Production								
1999-00	kt	1 664.7	437.6	540.0	963.3	249.2	1.7	3 867.0
2000-01	kt	1 635.2	383.4	510.1	352.5	206.0	1.3	3 098.2
2001-02	kt	1 575.5	349.0	355.4	418.7	273.1	1.0	2 982.3
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	2 400.4
2004-05	kt	1 059.3	352.0	483.8	488.0	246.1	1.0	2 640.6
2005-06	kt	973.3	347.4	337.3	630.0	221.7	1.0	2 521.3

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; ABARE.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	1 319.83	1 892.61	1 479.11	1 303.09	612.30	1 048.78	1 018.56	884.27
Cottonseed	359.94	530.75	657.79	593.64	258.57	166.57	214.35	204.45
Linseed	0.32	0.10	0.01	0.03	0.03	0.02	0.21	0.16
Peanuts	4.75	3.93	2.81	5.10	3.53	10.18	12.27	2.34
Safflowerseed	8.60	6.93	13.62	10.36	2.77	3.62	5.63	7.76
Soybeans	2.53	2.65	11.26	5.42	7.22	3.55	6.88	4.08
Sunflowerseed	11.02	7.65	24.81	1.98	2.25	1.37	3.13	3.40
Total a	1 706.99	2 444.63	2 189.43	1 919.62	886.67	1 234.08	1 261.04	1 106.46
(value, \$m)	672.95	789.97	709.10	740.72	391.55	540.40	484.12	403.90
Oils								
Canola	56.18	39.00	28.05	31.31	31.38	46.91	47.19	34.42
Cottonseed	1.35	0.31	0.64	2.49	2.05	1.98	2.19	2.74
Linseed	0.03	0.01	0.00	0.30	0.01	0.02	0.01	0.08
Palm	0.67	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Peanut	0.67	0.09	0.16	0.59	0.12	0.52	0.25	0.15
Safflowerseed	1.45	0.37	0.07	0.13	0.00	0.00	0.02	0.00
Soybeans	2.06	0.29	3.15	2.21	1.43	1.74	0.16	0.41
Sunflowerseed	8.32	5.41	6.34	4.73	4.26	1.06	3.52	7.76
Olive	0.24	0.27	0.33	0.31	0.14	0.30	0.63	2.47
Total	72.97	47.83	41.82	49.55	51.36	62.43	62.91	60.52
(value, \$m)	76.60	40.76	39.93	53.54	62.27	66.02	72.35	80.11
Oilseed meals								
Canola	0.18	0.54	1.73	0.00	0.00	0.00	0.00	0.00
Cottonseed and sunflowerseed	30.08	46.83	59.71	31.92	9.15	10.15	6.42	11.99
Linseed	0.00	0.02	0.00	0.74	0.19	0.00	0.01	0.00
Soybeans	2.43	1.74	2.47	1.78	1.54	2.82	7.90	2.33
Other b	115.41	68.64	8.32	1.80	1.38	1.17	5.61	5.53
Total	148.10	117.77	72.22	36.24	12.27	14.13	19.95	19.85
(value, \$m)	422.58	220.23	559.89	10.07	5.59	5.23	9.17	6.14

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.

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Volume of Australian exports of selected oilseeds products, by destination

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Oilseeds								
Canola								
Bangladesh	126.33	99.36	148.22	151.75	70.12	100.57	67.95	41.30
China	393.79	212.02	294.81	335.77	50.08	2.19	39.62	0.00
Japan	293.19	369.96	375.94	395.43	444.40	545.84	495.23	370.27
Pakistan	42.83	56.21	224.32	306.66	38.50	284.28	387.24	97.46
Other	463.69	155.06	435.82	113.48	9.20	115.90	28.53	375.24
Total ^a	1 319.83	1 892.61	1 479.11	1 303.09	612.30	1 048.78	1 018.56	884.27
Cottonseed								
Chinese Taipei	3.50	3.35	2.45	1.47	0.57	0.42	0.61	0.87
Japan	175.34	175.98	152.57	164.48	133.41	134.12	144.67	162.72
Korea, Rep. of	55.39	83.14	94.60	88.47	22.72	28.42	56.04	39.64
Saudi Arabia	0.30	2.27	17.00	8.50	0.00	0.00	10.58	0.00
United States	122.65	221.20	386.54	327.68	98.81	1.34	1.00	0.00
Other	2.77	44.82	4.64	3.05	3.05	2.26	1.47	1.20
Total ^a	359.94	530.75	657.79	593.64	258.57	166.57	214.35	204.45
Canola oil								
China	4.50	0.00	0.00	5.03	5.30	12.58	0.26	0.29
Japan	0.04	5.18	13.84	9.66	10.00	10.02	18.42	9.34
New Zealand	5.21	10.26	9.67	14.51	13.11	12.29	14.19	15.73
Other	46.43	23.56	4.54	2.11	2.96	12.02	14.33	9.07
Total	56.18	39.00	28.05	31.31	31.38	46.91	47.19	34.42
Cottonseed and sunflowerseed meal								
Korea, Rep. of	28.00	43.65	55.62	25.99	6.32	8.16	4.28	9.93
New Zealand	0.07	0.03	0.28	2.15	1.24	0.25	0.43	0.31
Other	2.00	3.14	3.81	3.77	1.59	1.74	1.72	1.75
Total	30.08	46.83	59.71	31.92	9.15	10.15	6.42	11.99

^a Excludes sesame seed and other oleaginous fruit.

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

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Oilseeds								
Canola	0.17	0.14	0.09	0.09	0.21	0.23	0.11	0.14
Copra	0.01	0.01	0.00	0.01	0.01	0.00	0.12	0.11
Linseed	0.40	0.14	1.23	1.04	0.56	1.45	1.22	0.00
Peanuts	5.68	3.70	7.41	5.77	28.38	16.42	7.43	4.95
Soybeans	23.32	18.13	0.09	0.31	43.82	39.60	0.62	0.72
Sunflowerseed	0.63	0.76	0.77	0.80	0.73	1.07	1.85	1.84
Other a	5.87	5.89	5.91	6.80	6.51	7.84	7.06	7.03
Total	36.08	28.78	15.50	14.81	80.22	66.62	18.41	14.78
(value, \$m)	28.84	22.54	23.44	20.80	61.45	50.05	26.69	20.94
Oils								
Canola	2.17	3.71	3.52	3.28	10.48	1.27	1.22	2.10
Cottonseed	0.18	0.23	0.42	0.64	0.71	6.91	3.16	2.14
Linseed	2.35	2.68	2.67	2.43	1.90	3.09	3.93	2.08
Maize	1.41	1.65	1.79	2.04	1.90	2.92	3.41	3.29
Peanut	0.36	0.53	1.11	0.35	1.46	2.87	0.94	1.21
Safflowerseed and sunflowerseed	9.53	8.69	12.58	16.64	24.86	31.19	29.71	24.81
Soybean	13.82	8.01	7.88	10.90	10.67	12.58	15.46	12.59
Castor	1.76	1.97	1.15	1.41	1.47	1.11	1.00	1.01
Coconut	16.39	13.40	14.36	12.18	15.23	14.16	11.77	10.56
Olive	22.97	22.53	30.75	24.69	0.02	0.18	0.11	0.43
Palm	7.81	6.60	7.36	8.35	7.97	8.48	10.52	20.59
Palm kernel	6.65	8.47	8.23	11.95	10.33	13.13	12.49	15.12
Palm olein	72.91	79.56	77.24	74.63	82.50	78.66	76.18	83.48
Palm stearin	19.59	25.84	23.40	29.54	22.08	25.94	21.34	20.78
Tung	16.23	33.64	15.20	0.19	0.31	0.25	0.32	0.27
Other b	32.30	33.21	40.63	31.18	217.10	73.35	34.86	32.63
Total oils	226.42	250.70	248.28	230.38	409.00	276.08	226.39	233.07
(value, \$m)	305.51	281.91	282.44	280.32	214.95	224.22	225.62	227.73
Oilseed meals								
Soybeans	176.90	211.86	204.71	258.76	373.66	312.15	377.16	329.64
Other c	32.30	33.21	40.63	31.18	217.10	73.35	34.86	32.63
Total	209.20	245.07	245.34	289.95	590.77	385.49	412.01	362.27
(value, \$m)	59.12	67.76	83.21	105.80	153.82	125.01	113.55	104.76

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.

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Summary of world statistics for oilseeds ^a

	Area million ha	Production Mt	Use ^b Mt	Closing stocks		Stocks to use ratio %	Exports Mt	Use per person kg	Price ^d US\$/t
				World Mt	Exporters ^c Mt				
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	46.0	304.4
1996-97	170.2	261.6	263.8	20.8	14.5	7.9	46.1	45.4	304.2
1997-98	177.5	287.0	275.3	31.0	23.4	11.3	49.5	46.7	257.4
1998-99	185.0	294.9	292.5	34.6	27.4	11.8	51.5	49.6	209.3
1999-00	188.8	304.6	301.1	38.4	29.0	12.8	59.8	50.4	209.8
2000-01	188.9	314.2	312.0	39.4	28.5	12.6	67.0	51.0	200.9
2001-02	188.8	325.1	324.4	41.2	32.6	12.7	62.9	52.3	201.0
2002-03	185.8	330.3	325.3	47.5	38.2	14.6	70.1	51.7	244.8
2003-04	196.2	335.2	336.4	43.9	36.0	13.1	67.1	52.6	320.6
2004-05	202.9	381.3	367.4	56.2	43.6	15.3	74.7	56.6	274.5
2005-06	200.1	389.6	382.0	61.5	48.8	16.1	76.9	58.9	260.8

^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.

189 World oilseeds production, by country ^a

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Africa								
South Africa	1 522	912	1 143	1 309	870	1 041	1 020	1 074
Americas								
Argentina	27 886	28 025	31 704	34 461	39 616	36 840	43 425	44 940
Brazil	32 303	36 079	41 341	45 012	53 712	53 576	55 683	57 076
Canada	10 490	11 696	10 027	6 756	6 671	9 184	10 830	12 910
Paraguay	3 153	3 114	3 702	3 666	4 643	4 144	4 265	4 232
United States	84 365	82 315	84 891	89 832	83 935	76 599	95 938	95 532
Asia								
China	44 903	45 726	51 132	52 194	52 676	50 847	57 974	55 937
India	25 735	23 022	21 563	24 787	20 187	29 682	29 392	30 664
Indonesia	5 236	5 766	5 873	5 926	6 131	6 623	7 238	7 580
Malaysia	2 813	3 096	3 427	3 342	3 610	3 595	4 073	4 092
Pakistan	3 668	4 396	4 110	3 994	3 759	3 755	5 530	5 007
Philippines	1 390	2 392	2 844	2 193	2 244	2 346	2 496	2 646
Turkey	2 060	2 195	1 863	1 904	2 361	2 062	2 105	1 980
Turkmenistan	415	420	329	339	275	370	360	380
Uzbekistan	2 000	2 250	1 920	2 150	2 000	1 800	2 250	2 400
Europe								
European Union ^b	15 177	20 508	17 217	17 406	16 905	16 439	21 061	20 779
Romania	1 199	1 591	863	912	1 095	1 610	1 826	1 725
Russian Federation	3 422	4 619	4 405	3 160	4 223	5 435	5 631	7 442
Ukraine	2 369	2 987	3 653	2 460	3 456	4 535	3 562	5 595
Oceania								
Australia	3 113	3 867	3 098	2 982	1 523	2 400	2 641	2 521
Other countries	21 681	19 624	19 075	20 315	20 408	22 276	23 975	25 130
Total	294 900	304 600	314 180	325 100	330 300	335 159	381 275	389 642

^a Oilseeds comprise soybeans, cottonseed, peanuts, sunflowerseed, canola, palm kernels and copra. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00.

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 kt	Copra kt	Cotton- seed kt	Linseed kt	Palm kernels kt	Peanuts kt	Rape- seed ^a kt	Sesame seed kt	Soybeans kt	Sunflower- seed 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	32 307	2 464	4 522	27 468	30 240	2 321	137 716	23 331
1995-96	1 210	5 136	35 136	2 539	4 868	27 665	34 364	2 540	125 053	25 737
1996-97	1 116	6 053	33 673	3 369	5 211	29 059	31 489	2 821	132 304	23 848
1997-98	1 181	5 412	34 320	2 371	5 045	27 561	33 161	2 652	158 240	23 291
1998-99	1 168	4 391	32 510	2 828	5 624	29 951	35 812	2 617	160 055	26 592
1999-00	1 261	5 434	32 987	2 868	6 418	29 417	42 483	2 704	160 629	27 223
2000-01	1 353	5 767	33 430	2 359	7 038	31 426	37 413	2 870	175 998	23 159
2001-02	1 043	5 213	36 422	2 159	7 190	33 809	36 033	3 236	185 094	21 383
2002-03	1 043	5 117	32 671	2 090	7 764	30 832	32 908	3 025	197 034	23 932
2003-04	1 107	5 383	35 598	2 261	8 434	32 778	39 434	3 239	186 770	26 762
2004-05	1 329	5 592	45 404	2 048	9 506	33 391	46 143	3 287	215 954	25 297
2005-06	1 384	5 785	42 513	2 804	9 878	33 782	48 549	3 300	218 037	29 766

^a Predominantly canola since the late 1980s.

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

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola	7.04	8.20	7.02	4.98	4.04	5.25	5.06	6.93
China	2.20	3.68	2.36	0.78	0.05	0.42	0.32	0.70
European Union ^b	0.96	0.09	0.54	0.20	0.06	0.17	0.11	0.45
Japan	2.17	2.23	2.18	2.08	2.11	2.28	2.23	2.35
Copra	0.22	0.23	0.13	0.09	0.07	0.07	0.13	0.09
European Union ^b	0.10	0.10	0.06	0.04	0.02	0.04	0.04	0.05
Linseed	0.92	0.71	0.76	0.79	0.78	0.83	0.68	0.75
European Union ^c	0.58	0.42	0.59	0.62	0.60	0.62	0.49	0.55
Japan	0.08	0.06	0.05	0.05	0.02	0.02	0.02	0.03
Soybeans	39.34	46.19	53.16	54.52	62.01	54.16	63.60	64.24
China	3.85	10.10	13.25	10.39	21.42	16.93	25.80	28.20
European Union ^b	14.86	14.13	17.53	18.54	16.87	14.64	14.64	13.90
Japan	4.81	4.91	4.77	5.02	5.09	4.69	4.30	3.95
Mexico	3.77	4.04	4.38	4.51	4.23	3.80	3.64	3.73
Sunflowerseed	3.74	3.67	2.30	1.22	1.71	2.61	1.46	1.66
European Union ^b	2.76	2.02	1.72	0.87	1.00	1.47	0.69	0.98
Israel	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Mexico	0.04	0.01	0.03	0.01	0.10	0.04	0.01	0.01
Turkey	0.60	0.44	0.32	0.17	0.23	0.66	0.53	0.41
Other oilseeds ^d	1.39	1.22	2.27	2.31	2.82	1.71	2.08	1.92
Total	52.65	60.21	65.64	63.91	71.43	64.63	73.01	75.59
Exports								
Canola	6.84	8.21	7.21	4.93	4.13	5.52	5.09	7.08
Australia	1.32	1.89	1.48	1.30	0.61	1.05	1.02	0.88
Canada	3.88	3.90	4.84	2.67	2.42	3.76	3.49	5.43
Copra	0.22	0.22	0.12	0.12	0.11	0.08	0.14	0.11
Papua New Guinea	0.06	0.09	0.02	0.03	0.02	0.01	0.02	0.02
Philippines	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00
Linseed	0.93	0.72	0.79	0.76	0.79	0.82	0.67	0.75
Canada	0.89	0.67	0.72	0.69	0.64	0.71	0.53	0.62
Soybeans	38.27	45.63	53.87	53.44	61.18	55.80	64.54	65.20
Argentina	3.40	4.13	7.41	6.00	8.71	6.93	9.31	7.30
Brazil	8.93	11.10	15.47	15.00	19.73	19.82	20.14	25.90
United States	21.90	26.54	27.10	28.95	28.42	24.13	29.86	25.80
Sunflowerseed	3.76	2.72	2.60	1.31	1.84	2.72	1.55	2.08
Argentina	0.91	0.28	0.08	0.36	0.21	0.05	0.11	0.11
Ukraine	0.88	0.45	1.02	0.10	0.33	0.93	0.01	0.23
United States	0.26	0.21	0.20	0.24	0.17	0.17	0.14	0.17
Other oilseeds ^d	1.47	2.33	2.41	2.34	2.05	2.11	2.71	1.68
Total	51.48	59.83	67.00	62.90	70.10	67.05	74.70	76.90

^a Imports may not equal exports in any given period as a result of lags in shipping time. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00; 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; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Copra meal	0.51	0.85	1.16	0.79	0.75	0.67	0.69	0.73
European Union b	0.29	0.49	0.66	0.40	0.28	0.14	0.08	0.08
Korea, Rep. of	0.19	0.31	0.43	0.35	0.37	0.39	0.40	0.42
Fish meal	2.78	3.70	3.48	3.16	2.85	3.12	3.65	3.14
China	0.64	1.19	0.90	0.96	0.80	1.13	1.58	1.05
Chinese Taipei	0.29	0.30	0.29	0.24	0.24	0.24	0.23	0.26
European Union b	0.67	0.88	0.78	0.74	0.74	0.57	0.67	0.60
Peanut meal	0.29	0.23	0.22	0.28	0.10	0.26	0.15	0.21
European Union b	0.18	0.17	0.18	0.14	0.06	0.03	0.03	0.03
Thailand	0.07	0.04	0.02	0.08	0.02	0.03	0.04	0.02
Soybean meal	35.71	35.01	36.00	40.61	42.32	45.07	46.05	50.43
European Union b	16.43	17.81	17.50	19.69	20.36	21.90	21.72	22.57
Indonesia	0.83	1.14	1.62	1.25	1.64	1.67	1.85	1.87
Korea, Rep. of	1.10	1.09	1.41	1.50	1.53	1.31	1.46	1.58
Philippines	0.90	0.99	1.16	1.51	1.45	1.17	1.54	1.58
Other meals c	7.64	7.75	7.47	6.80	7.38	8.83	8.71	9.37
Total	46.93	47.54	48.33	51.64	53.40	57.95	59.25	63.88
Exports								
Fish meal	3.09	3.67	3.48	3.18	2.89	3.13	3.67	3.15
European Union b	0.29	0.21	0.20	0.21	0.20	0.20	0.23	0.21
South America	2.14	2.83	2.63	2.18	2.02	2.24	2.76	2.29
Peanut meal	0.33	0.26	0.27	0.32	0.10	0.35	0.18	0.22
India	0.05	0.01	0.02	0.11	0.00	0.25	0.09	0.13
Senegal	0.09	0.13	0.13	0.09	0.04	0.02	0.02	0.02
Sudan	0.07	0.07	0.02	0.02	0.00	0.01	0.01	0.01
Soybean meal	35.38	35.27	36.55	41.24	42.43	45.14	46.51	51.19
Argentina	13.41	14.44	14.04	15.94	18.25	18.85	20.50	24.70
Brazil	9.81	9.95	10.67	11.86	13.61	14.76	14.24	12.90
European Union b	1.28	0.21	0.27	0.33	0.34	0.40	0.53	0.72
United States	6.98	6.91	7.34	7.27	5.73	4.69	6.66	7.12
Other meals d	8.51	8.95	8.85	7.74	8.13	9.70	9.73	10.60
Total	47.31	48.15	49.15	52.48	53.55	58.32	60.09	65.16

^a Imports may not equal exports in any given period, as a result of lags in shipping time. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00; 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.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola oil	1.62	1.74	1.23	1.11	0.91	1.35	1.17	1.51
European Union ^b	0.01	0.00	0.00	0.00	0.01	0.03	0.04	0.34
India	0.24	0.16	0.05	0.01	0.05	0.00	0.00	0.00
Coconut oil	1.23	1.53	1.73	1.88	1.76	1.76	1.86	2.01
European Union ^b	0.52	0.76	0.77	0.81	0.68	0.76	0.76	0.77
United States	0.36	0.42	0.51	0.50	0.39	0.36	0.42	0.50
Palm oil	11.95	13.06	16.35	17.12	19.73	21.75	24.38	25.92
European Union ^b	2.26	2.07	2.85	2.98	3.01	3.37	4.02	4.50
India	2.90	3.30	4.00	3.40	3.95	3.49	3.73	3.00
Pakistan	0.98	1.04	1.30	1.25	1.37	1.30	1.55	1.75
Singapore	0.29	0.43	0.29	0.27	0.31	0.28	0.30	0.32
Soybean oil	7.25	6.08	7.00	7.82	8.36	8.25	8.96	9.26
China	1.04	0.68	0.36	0.55	1.71	2.75	1.74	1.57
European Union ^b	0.03	0.08	0.04	0.06	0.04	0.07	0.16	0.73
India	0.83	0.79	1.40	1.56	1.26	0.76	2.02	1.95
Russian Federation	0.20	0.23	0.46	0.59	0.18	0.10	0.09	0.07
Sunflowerseed oil	2.92	2.51	2.03	1.83	2.01	1.92	2.16	2.72
European Union ^b	0.21	0.17	0.27	0.69	0.71	0.53	0.89	1.05
Other vegetable oils ^c	1.88	1.74	1.97	2.06	2.25	2.45	2.38	2.49
Total	26.85	26.66	30.31	31.82	35.02	37.48	40.91	43.91
Exports								
Canola oil	1.78	1.74	1.16	1.01	0.91	1.15	1.14	1.68
Canada	0.76	0.78	0.74	0.54	0.54	0.82	0.84	1.09
European Union ^b	0.77	0.71	0.21	0.28	0.25	0.14	0.13	0.08
Coconut oil	1.11	1.97	1.84	1.79	1.72	1.69	1.95	2.04
Philippines	0.60	1.15	1.20	1.07	1.06	1.06	1.00	1.20
Cottonseed oil	0.16	0.17	0.19	0.18	0.14	0.14	0.12	0.10
United States	0.05	0.06	0.06	0.07	0.05	0.05	0.03	0.03
Palm oil	12.36	14.03	16.66	17.82	19.72	21.61	24.60	26.81
Indonesia	3.06	3.87	4.78	5.98	6.42	7.86	9.62	11.00
Malaysia	8.10	8.85	10.48	10.50	11.65	11.60	12.63	12.90
Soybean oil	7.58	6.32	7.17	8.15	8.76	8.63	7.23	9.33
Argentina	3.19	2.94	3.22	3.44	3.64	4.09	4.75	5.63
Brazil	1.44	1.14	1.53	1.78	2.39	2.72	2.41	2.06
European Union ^b	1.05	0.95	0.89	0.90	0.71	0.54	0.51	0.25
United States	1.08	0.62	0.64	1.14	1.03	0.43	0.60	0.52
Sunflowerseed oil	3.09	3.01	2.24	1.95	2.26	2.63	2.53	3.24
Argentina	1.84	1.63	1.00	1.16	0.90	1.01	1.18	1.15
European Union ^b	0.24	0.21	0.15	0.09	0.13	0.15	0.12	0.12
Other vegetable oils ^c	1.70	1.73	1.96	2.14	1.02	2.50	4.74	2.33
Total	27.78	28.97	31.22	33.04	34.53	38.35	42.31	45.53

^a Imports may not equal exports in any given period, as a result of lags in shipping time. ^b Regarded as fifteen countries to 1998-99 then twenty five countries from 1999-00; 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	304.4	256.3	574.9
1996-97	284.4	525.1	304.2	277.7	535.6
1997-98	296.1	604.7	257.4	196.8	633.4
1998-99	227.3	484.0	209.3	149.7	482.9
1999-00	190.1	315.3	209.8	179.7	355.0
2000-01	202.0	243.8	200.9	187.9	336.0
2001-02	220.4	340.6	201.0	174.3	412.0
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	260.8	203.0	573.0

^a October–September average. ^b Cif Rotterdam; Europe '00' oil. ^c Malaysia fob; RBD. ^d Cif Rotterdam. ^e Cif Rotterdam; Arg. 45/46%. ^f Dutch fob; ex mill. **na** Not available.

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

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Summary of Australian statistics for pulses

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Lupins									
Area	'000 ha	1 407.0	1 347.0	1 180.0	1 139.0	1 024.5	851.0	845.0	753.5
Yield	t/ha	1.2	1.5	0.9	1.1	0.7	1.4	1.1	1.4
Production	kt	1 696.0	1 968.0	1 055.0	1 215.0	725.5	1 180.0	937.0	1 078.9
Exports ^a	kt	969.5	1 439.3	714.4	414.2	207.5	645.6	418.5	434.7
Value of exports	\$m	154.9	234.9	165.9	108.9	57.3	147.7	88.8	101.3
Average unit value	\$/t	142.7	145.4	205.3	250.0	291.5	235.7	205.9	207.7
Gross value of production	\$m	242.0	286.1	216.6	303.8	211.5	278.1	192.9	224.1
Field peas									
Area	'000 ha	370.0	423.0	397.0	337.0	380.0	354.0	413.0	280.0
Yield	t/ha	1.0	1.2	1.1	1.5	0.5	1.4	0.7	1.7
Production	kt	370.2	496.1	456.0	512.0	178.0	487.0	289.0	478.0
Exports ^{ab}	kt	207.2	307.3	387.0	459.1	107.6	209.3	116.1	156.1
Value of exports ^b	\$m	62.6	89.8	111.7	156.9	43.0	55.6	33.4	43.2
Average unit value	\$/t	246.4	214.0	218.6	287.8	343.8	231.6	234.6	202.3
Gross value of production	\$m	91.2	106.1	99.7	147.3	61.2	112.8	67.8	96.7
Chickpeas									
Area	'000 ha	308.5	218.0	261.5	195.0	201.0	151.5	113.3	105.3
Yield	t/ha	0.6	1.1	0.6	1.3	0.7	1.2	1.0	1.2
Production	kt	187.6	229.9	162.4	258.0	136.0	178.0	115.6	122.8
Exports ^a	kt	109.4	217.5	217.8	278.0	88.5	163.8	151.2	214.4
Value of exports	\$m	50.1	100.8	112.6	166.9	52.4	70.6	65.3	107.1
Average unit value	\$/t	382.8	339.5	463.1	504.5	477.8	326.7	310.3	460.6
Gross value of production	\$m	71.8	78.1	75.2	130.2	65.0	58.2	35.9	56.6
Total legumes ^c									
Area	'000 ha	2 454.0	2 319.8	2 286.8	2 086.0	2 034.3	1 700.1	1 764.0	1 509.3
Yield	t/ha	1.1	1.3	1.0	1.3	0.6	1.4	1.0	1.5
Production	kt	2 587.3	3 118.0	2 241.3	2 674.0	1 295.7	2 396.1	1 683.3	2 306.3
Exports ^{ad}	kt	1 474.7	2 334.1	1 760.8	1 720.2	740.0	1 396.1	910.2	1 205.6
Value of exports ^{ad}	\$m	342.8	601.3	636.1	728.0	290.7	440.2	308.3	436.1
Average unit value	\$/t	197.9	197.5	260.0	301.2	304.9	239.1	234.2	234.4
Gross value of production	\$m	512.0	615.9	582.8	805.5	395.0	572.8	394.2	540.5

^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							
1999-00	'000 ha	135.0	35.0	0.0	1 104.0	73.0	1 347.0
2000-01	'000 ha	92.0	34.0	0.0	987.0	67.0	1 180.0
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	26.0	20.2	0.0	650.3	57.0	753.5
Yield							
1999-00	t/ha	1.78	1.29	0.00	1.45	1.10	1.46
2000-01	t/ha	1.38	1.38	0.00	0.79	1.46	0.89
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	1.85	1.26	0.00	1.42	1.40	1.43
Production							
1999-00	kt	240.0	45.0	0.0	1 603.0	80.0	1 968.0
2000-01	kt	127.0	47.0	0.0	783.0	98.0	1 055.0
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	48.0	25.4	0.0	925.5	80.0	1 078.9
Field peas							
Area							
1999-00	'000 ha	25.0	174.0	0.0	62.0	161.0	423.0
2000-01	'000 ha	24.0	146.0	1.0	90.0	135.0	397.0
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	40.0	55.0	0.0	65.0	120.0	280.0
Yield							
1999-00	t/ha	1.20	1.23	0.00	1.13	1.12	1.17
2000-01	t/ha	1.04	1.16	0.00	0.49	1.60	1.15
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	2.00	1.73	0.00	1.35	1.79	1.71
Production							
1999-00	kt	30.0	214.0	0.0	70.0	181.0	496.1
2000-01	kt	25.0	170.0	0.0	44.0	216.0	456.0
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	80.0	95.0	0.0	88.0	215.0	478.0

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Chickpeas							
Area							
1999-00	'000 ha	66.3	27.8	46.2	71.5	6.2	218.0
2000-01	'000 ha	124.5	8.0	71.0	57.0	1.1	261.5
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
Yield							
1999-00	t/ha	1.29	0.82	0.99	0.99	0.79	1.05
2000-01	t/ha	0.65	0.95	0.79	0.31	0.74	0.62
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
Production							
1999-00	kt	85.6	22.8	45.9	70.7	4.9	229.9
2000-01	kt	80.3	7.6	56.0	17.8	0.8	162.4
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
Faba beans							
Area							
1999-00	'000 ha	16.8	55.1	0.0	16.2	58.7	146.8
2000-01	'000 ha	44.1	67.0	2.3	13.4	79.5	206.3
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
Yield							
1999-00	t/ha	1.98	1.39	0.00	1.19	1.65	1.54
2000-01	t/ha	1.38	1.55	0.88	0.52	1.90	1.57
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
Production							
1999-00	kt	33.2	76.8	0.0	19.3	97.1	226.4
2000-01	kt	60.7	104.2	2.0	7.0	151.0	324.9
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

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia ^a
Mung beans							
Area							
1999-00	'000 ha	20.0	0.0	28.0	0.0	0.0	48.0
2000-01	'000 ha	33.0	1.0	53.6	0.0	0.0	87.9
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
Yield							
1999-00	t/ha	0.90	0.00	0.83	0.00	0.00	0.86
2000-01	t/ha	0.62	0.00	0.57	0.00	0.00	0.59
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
Production							
1999-00	kt	18.1	0.0	23.2	0.0	0.0	41.3
2000-01	kt	20.5	0.0	30.7	0.0	0.0	51.9
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
Total pulses ^b							
Area							
1999-00	'000 ha	266.1	361.9	74.2	1 265.7	350.9	2 319.8
2000-01	'000 ha	319.6	346.0	127.9	1 154.4	337.6	2 286.8
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	167.0	203.9	61.8	732.3	344.3	1 509.3
Yield							
1999-00	t/ha	1.54	1.25	0.93	1.40	1.18	1.34
2000-01	t/ha	0.99	1.27	0.69	0.74	1.60	0.98
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	1.70	1.62	0.96	1.41	1.75	1.53
Production							
1999-00	kt	409.9	450.6	69.1	1 773.0	414.2	3 118.0
2000-01	kt	316.5	437.8	88.7	855.8	540.8	2 241.3
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	283.1	329.4	59.5	1 030.5	603.8	2 306.3

^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.

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World pulses production, by region and country

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Africa								
Burundi	313	262	219	284	280	280	256	255
Egypt	587	379	425	516	492	426	413	434
Ethiopia	787	778	996	1 160	1 088	869	1 044	1 050
Nigeria	2 105	2 158	2 200	2 222	2 224	2 278	2 367	2 367
Uganda	520	561	585	673	700	646	711	711
Americas								
Brazil	2 200	2 841	3 058	2 466	3 082	3 318	2 986	3 087
Canada	3 066	3 454	4 443	3 366	2 292	3 065	4 580	4 753
Mexico	1 459	1 364	1 230	1 495	1 893	1 766	1 515	1 551
United States	1 780	1 864	1 533	1 224	1 700	1 406	1 569	2 118
Asia								
China	4 865	4 704	4 696	5 122	5 915	5 892	5 304	5 909
India	13 057	14 800	13 187	11 290	13 017	11 681	14 871	14 140
Myanmar	1 430	1 545	1 665	2 044	2 344	2 410	2 447	2 447
Pakistan	1 162	1 089	935	770	763	1 073	998	1 224
Thailand	276	301	282	294	274	295	298	300
Europe								
Denmark	388	192	138	113	150	125	96	53
France	3 310	2 715	2 066	1 877	2 035	1 945	2 083	1 763
Poland	289	317	264	211	229	238	270	280
Russian Federation	889	856	1 173	1 796	1 797	1 601	900	1 628
Ukraine	747	631	653	827	810	572	814	695
United Kingdom	702	750	794	957	924	934	922	860
Middle East								
Turkey	1 599	1 360	1 316	1 455	1 640	1 558	1 579	1 558
Oceania								
Australia ^a	2 330	2 587	3 118	2 241	2 674	1 296	2 396	1 683
Total ^b	56 119	56 947	54 559	54 225	56 826	57 251	60 916	61 258

^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.

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Volume of world pulses trade, by region and country

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Imports							
Africa							
Algeria	146.5	162.3	160.5	175.5	167.2	172.8	157.7
Egypt	166.6	327.5	263.9	370.8	413.7	393.0	433.0
South Africa	61.8	59.8	62.0	45.9	69.9	122.9	77.4
Americas							
Brazil	254.6	134.7	120.8	169.8	115.7	137.5	113.5
Colombia	135.8	132.0	174.7	177.6	155.2	119.9	127.2
Cuba	155.1	219.8	119.8	210.3	114.3	213.9	217.4
Mexico	245.2	168.4	133.5	176.8	150.6	129.4	109.4
United States	120.8	201.5	210.8	213.1	255.1	249.9	255.0
Venezuela	100.2	101.1	108.2	114.8	93.2	86.9	83.7
Asia							
China	167.5	126.7	190.2	235.3	195.9	138.7	163.0
Hong Kong, China	17.9	17.6	14.5	11.7	12.8	12.3	11.1
India	628.8	269.3	352.5	2 320.9	2 165.3	1 953.9	1 471.9
Japan	158.2	171.3	170.0	163.4	157.6	158.9	162.2
Malaysia	55.2	66.8	62.0	62.1	64.0	68.9	77.4
Singapore	55.5	37.7	34.6	47.1	66.2	23.9	22.4
Europe							
France	112.8	110.3	161.5	144.6	119.0	113.1	100.1
Germany	184.4	209.9	138.5	107.9	80.7	80.8	135.9
Italy	407.2	417.9	436.5	420.7	429.3	436.9	420.8
Netherlands	594.2	584.7	330.3	228.0	194.3	324.0	262.0
Spain	784.1	776.7	850.2	767.7	431.8	419.3	939.5
United Kingdom	166.6	175.6	160.3	166.2	182.3	184.8	170.5
Middle East							
United Arab Emirates	60.9	50.6	36.9	47.9	140.3	105.9	86.5
Total a	7 100.5	7 114.9	7 340.0	9 519.2	8 749.6	8 857.2	8 760.6

Continued

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

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Exports							
Americas							
Argentina	321.1	281.7	283.4	276.1	253.5	230.0	183.4
Canada	1 688.7	2 096.6	2 695.0	2 865.9	1 413.4	1 772.2	2 330.0
Chile	20.8	12.6	13.4	13.9	12.3	12.2	8.3
Mexico	117.8	165.1	167.4	212.1	155.6	158.6	102.3
United States	713.3	615.1	569.3	581.8	552.1	562.1	559.1
Asia							
China	472.9	811.2	572.1	719.2	860.8	1 041.5	795.8
Myanmar	621.5	560.9	831.3	1 034.8	1 100.8	1 000.0	906.0
Singapore	46.5	26.5	23.3	37.3	54.7	11.5	11.4
Thailand	32.6	45.5	48.6	34.2	41.9	37.2	25.6
Europe							
Denmark	80.5	85.9	46.9	43.6	77.4	33.5	45.1
France	1 122.9	1 238.7	819.5	633.2	986.0	747.2	773.6
Hungary	20.0	22.8	10.7	8.3	11.4	10.9	12.3
Netherlands	104.4	93.6	80.3	50.7	61.1	52.6	52.2
United Kingdom	185.5	227.6	252.5	165.5	303.3	498.0	422.1
Middle East							
Turkey	354.5	233.3	163.3	360.4	244.6	449.5	323.7
Oceania							
Australia b	1 549.0	1 474.7	2 334.1	1 760.8	1 720.2	740.0	1 396.1
New Zealand	23.9	34.7	24.9	23.6	18.9	22.2	19.5
Total a	7 463.5	8 281.8	8 605.6	9 372.8	8 781.3	8 433.0	8 884.8

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

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

1999

Summary of Australian statistics for rice ^a

	Area '000 ha	Yield ^b t/ha	Production		Exports		Apparent consumption ^f kt
			Volume ^b kt	Unit value ^c \$/t	Volume ^d kt	Unit value ^e \$/t	
1960-61	18.7	6.1	114.3	72.2	60.3	107.8	17.2
1961-62	20.3	6.6	134.2	57.1	50.8	114.2	17.5
1962-63	22.2	6.1	135.8	56.5	56.8	121.5	17.9
1963-64	24.0	5.9	142.0	55.7	56.1	130.1	18.2
1964-65	24.9	6.1	153.0	55.8	64.2	124.6	21.3
1965-66	26.1	7.0	181.7	56.3	63.9	126.8	25.2
1966-67	29.8	7.2	214.3	58.1	89.2	128.9	27.5
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	105.0	10.0	1 048.0	362.1	167.5	653.1	161.4

^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. ^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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Exports ^a									
Quantity	kt	582	672	602	580	664	216	299	167
Total export value ^b	\$m	388	414	383	339	428	134	190	109
Imports ^{ac}									
Quantity	kt	39	48	50	55	61	80	91	103
Total import value	\$m	34	38	44	43	46	56	59	69
Indicator price									
Thai white rice ^d	US\$/t	283.75	230.58	184.17	191.67	199.42	220.33	278.33	301.42
Exchange rate	US\$/A\$	0.63	0.63	0.54	0.52	0.58	0.71	0.75	0.75
Australian price ^e	A\$/t	453.22	366.21	341.95	365.79	341.23	309.30	370.24	404.38
Average returns to growers ^f									
Avg. medium grain return	\$/t	213.0	215.0	232.0	193.4	243.7	313.1	279.5	284.1

^a Milled equivalent; marketing year (April–March) basis. ^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.

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Summary of world statistics for rice ^a

	Area harvested million ha	Production ^b Mt	Total use Mt	Closing stocks ^{bc} Mt	Stocks to use ratio %	Trade ^d Mt	Export price ^e US\$/t
1960-61	120	151	157	10	7	7	132.33
1961-62	116	147	149	9	6	6	146.67
1962-63	120	155	151	13	8	7	149.42
1963-64	122	169	165	16	10	8	140.25
1964-65	125	181	180	17	10	8	135.00
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	26	283.75
1999-00	155	409	396	145	37	24	230.58
2000-01	152	399	392	149	38	24	184.17
2001-02	151	399	411	136	33	28	191.67
2002-03	146	378	405	107	26	28	199.42
2003-04	148	392	410	85	21	27	220.33
2004-05	150	400	406	77	19	29	278.33
2005-06	152	416	412	80	19	28	301.42

^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/rce-bb/>); ABARE.

202 World rice production, by country or region ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	1.4	1.1	1.6	1.2	0.4	0.6	0.3	1.0
Bangladesh	29.8	34.6	37.6	36.5	37.8	39.2	38.4	43.1
Brazil	11.6	11.4	10.2	10.4	10.4	12.8	13.2	11.5
China	198.7	198.5	187.9	177.6	174.5	160.7	179.1	180.6
European Union ^b	2.7	2.7	2.5	2.6	2.8	2.7	2.7	2.6
India	129.1	134.5	127.5	140.0	107.7	132.8	124.7	136.6
Indonesia	50.9	51.9	51.5	51.1	51.8	54.3	54.0	54.2
Japan	11.2	11.5	11.9	11.3	11.1	9.7	10.9	11.3
Korea, Rep. of	6.8	7.1	7.2	7.4	6.7	6.2	6.7	6.4
Myanmar	16.0	17.0	18.6	18.0	18.6	18.5	16.5	18.0
Pakistan	7.0	7.7	7.2	5.8	6.7	7.3	7.4	8.3
Philippines	10.3	12.0	12.5	13.0	13.0	14.2	14.5	15.1
Thailand	23.6	25.0	25.8	26.5	26.1	27.3	26.3	27.6
United States	8.4	9.3	8.7	9.8	9.6	9.1	10.5	10.1
Viet Nam	30.5	31.7	31.0	31.9	32.6	33.5	34.4	34.0
World	586.5	608.0	593.2	593.9	562.1	584.3	595.7	619.1

^a Crop year (paddy basis); ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00.
Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ABARE.

203 Volume of world rice trade, by country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Bangladesh	1.22	0.64	0.40	0.31	1.11	0.80	0.79	0.60
Brazil	0.78	0.57	0.67	0.55	1.06	0.76	0.55	0.55
China	0.18	0.28	0.27	0.30	0.26	1.12	0.61	0.70
European Union ^b	0.78	1.10	1.19	1.17	0.95	1.08	0.97	0.98
India	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Indonesia	3.73	1.50	1.50	3.50	2.75	0.65	0.50	0.90
Iran	1.31	1.10	0.77	0.96	0.90	0.95	0.98	1.20
Iraq	0.78	1.27	0.96	1.18	0.67	0.89	0.79	1.20
Japan	0.63	0.66	0.68	0.62	0.65	0.70	0.79	0.65
Malaysia	0.62	0.60	0.63	0.48	0.50	0.70	0.75	0.75
Nigeria	0.95	1.25	1.91	1.90	1.45	1.37	1.78	1.60
Philippines	1.00	0.90	1.18	1.25	1.30	1.10	1.90	1.90
Russian Federation	0.58	0.40	0.25	0.41	0.39	0.35	0.35	3.80
Saudi Arabia	0.75	0.99	1.05	0.94	1.15	1.50	1.25	1.00
World ^c	27.00	26.00	24.45	24.45	27.88	27.58	27.18	29.01
Exports								
Australia	0.56	0.67	0.63	0.57	0.63	0.35	0.28	0.20
China	2.71	2.95	1.85	7.85	1.96	2.58	0.88	0.66
European Union ^b	0.35	0.31	0.27	0.36	0.22	0.19	0.20	0.18
India	2.75	1.45	1.94	6.65	4.42	3.17	4.69	3.80
Myanmar	0.06	0.16	0.67	1.00	0.39	0.13	0.19	0.13
Pakistan	1.84	2.03	2.42	2.42	1.60	1.96	1.99	3.03
Thailand	6.68	6.55	7.52	7.52	7.25	7.55	10.14	7.27
United States	2.64	2.85	2.54	2.54	3.30	3.83	3.09	3.86
Viet Nam	4.56	3.37	3.53	3.53	3.25	3.80	4.30	5.17
World ^c	27.00	26.00	24.45	24.45	27.88	27.58	27.18	29.01

^a Milled basis. ^b Regarded as fifteen countries to 1998, then twenty five countries from 1999. 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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Area harvested	million ha	1.32	1.42	1.23	1.34	1.30	1.21	1.35	1.36
Yield	t/ha	6.35	6.58	7.04	7.28	7.36	7.50	7.81	7.45
Opening stocks ^b	Mt	0.88	0.69	0.87	0.89	1.22	0.83	0.76	1.21
Production ^b	Mt	5.80	6.50	5.94	6.71	6.54	6.42	7.46	7.11
Total supply ^c	Mt	7.01	7.52	7.16	8.02	8.22	7.73	8.64	8.86
Exports	Mt	2.73	2.80	2.64	4.30	5.65	4.67	4.93	5.25
Long grain	Mt	2.25	2.24	2.05	3.35	4.51	3.66	3.80	4.22
Medium-short grain	Mt	0.48	0.57	0.59	0.95	1.14	1.01	1.13	1.03
Domestic and residual use	Mt	3.59	3.85	3.68	3.85	3.53	3.66	3.94	3.81
Total use	Mt	7.01	7.52	7.15	8.02	8.22	7.33	8.64	8.86
Target price ^d	US\$/t	na	na	na	na	232	232	232	na
Statutory loan rate	US\$/t	143	143	143	143	143	143	143	na
Farm price	US\$/t	196	131	124	94	99	178	162	168

^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.

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Rice export price quotations, by country ^a

	Thailand Nominal price quote-US ^b US\$/t	Arkansas ^c US\$/t	California ^d US\$/t
1980-81	492.58	563.00	611.23
1981-82	379.83	445.42	461.59
1982-83	280.42	392.79	350.90
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
2005			
January	292.00	318.00	397.00
February	296.00	311.00	397.00
March	298.00	304.00	397.00
April	302.00	303.00	397.00
May	300.00	307.00	379.00
June	291.00	294.00	375.00
July	281.00	285.00	367.00
August	288.00	278.00	379.00
September	291.00	292.00	441.00
October	292.00	303.00	474.00
November	283.00	308.00	507.00
December	286.00	320.00	507.00
2006			
January	299.00	343.00	507.00
February	307.00	354.00	507.00
March	309.00	353.00	491.00
April	308.00	358.00	485.00
May	314.00	364.00	498.00
June	319.00	364.00	507.00
July	321.00	371.00	507.00
August	319.00	395.00	507.00

^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 from 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 million ha	Yield t/ha	Production ^b Mt	Domestic use Mt	Exports ^c Mt	Closing stocks ^d Mt
China						
2000-01	29.96	6.27	187.91	134.30	7.85	93.01
2001-02	28.81	6.16	177.58	136.50	1.96	79.16
2002-03	28.20	6.19	174.54	135.70	2.58	63.31
2003-04	26.51	6.06	160.66	137.10	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	1.00	37.25
Viet Nam						
2000-01	7.49	4.14	31.02	16.50	3.53	2.96
2001-02	7.47	4.27	31.87	17.00	3.25	3.79
2002-03	7.46	4.37	32.62	17.50	3.80	4.07
2003-04	7.47	4.48	33.46	17.85	4.30	4.30
2004-05	7.45	4.62	34.42	18.00	5.17	4.16
2005-06	7.33	4.63	33.97	18.25	5.20	3.48
Pakistan						
2000-01	2.38	3.03	7.20	2.62	2.42	0.59
2001-02	2.12	2.75	5.82	2.54	1.60	0.31
2002-03	2.20	3.05	6.72	2.55	1.96	0.25
2003-04	2.46	2.96	7.27	2.60	1.99	0.64
2004-05	2.50	2.95	7.38	2.55	3.03	0.20
2005-06	2.62	3.18	8.32	2.56	3.00	0.30
Thailand						
2000-01	9.89	2.61	25.84	9.25	7.52	2.25
2001-02	10.13	2.62	26.51	9.40	7.25	3.12
2002-03	10.16	2.56	26.06	9.46	7.55	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	9.50	7.30	3.76
United States						
2000-01	1.23	7.04	8.66	3.68	2.54	0.89
2001-02	1.34	7.28	9.76	3.85	3.30	1.22
2002-03	1.30	7.36	9.57	3.53	3.83	0.83
2003-04	1.21	7.50	9.07	3.66	3.09	0.76
2004-05	1.35	7.81	10.54	3.94	3.86	1.21
2005-06	1.36	7.45	10.13	3.81	3.70	1.37
World						
2000-01	151.54	3.91	593.18	392.26	24.45	149.25
2001-02	150.50	3.95	593.88	411.10	27.88	136.39
2002-03	145.80	3.86	562.13	404.95	27.58	106.52
2003-04	148.13	3.94	584.30	410.39	27.18	85.39
2004-05	149.64	3.98	595.70	405.81	29.01	77.00
2005-06	151.71	4.08	619.14	412.07	28.14	80.28

^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 '000 ha	Cane crushed kt	Sugar production ^a kt	No. 1 pool price \$/t	Exports kt
1960-61	138	9 313	1 362	99.6	809
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	5 461	276.7	4 167
2003-04	448	36 993	4 994	231.9	4 060
2004-05	434	37 822	5 196	255.8	4 153
2005-06	415	38 169	5 108	na	4 038

^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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Area harvested for crushing	'000 ha	428	403	426	448	448	434	415
Cane yield	t/ha harvested	89.2	69.8	73.8	82.6	82.6	87.1	92.0
Cane crushed	kt	38 165	28 117	31 424	36 995	36 993	37 822	38 169
Commercial cane sugar	%	13.72	13.33	14.09	14.10	13.49	13.90	13.39
Sugar production ^a	kt	5 448	4 162	4 987	5 461	4 994	5 196	5 108
Sugar yield	t/ha harvested	12.7	10.3	11.7	12.2	11.1	12.0	12.3
Cane to sugar ratio		7.01	6.76	6.30	6.77	7.41	7.28	7.47
Gross value of sugarcane cut for crushing	\$m	882	657	989	1 019	854	980	1 037

^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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 ^p kt
Raw sugar in bulk								
Canada	708.8	530.7	512.1	477.5	329.3	381.2	332.9	na
China	50.0	39.0	60.0	230.0	367.7	99.8	179.0	na
Chinese Taipei	154.5	276.0	120.3	122.7	157.5	133.6	279.0	na
Egypt	88.0	0.0	0.0	0.0	0.0	0.0	0.0	na
Indonesia	206.9	130.4	55.5	66.6	163.7	152.3	362.2	na
Iran	20.0	124.0	80.0	0.0	84.0	0.0	0.0	na
Japan	648.6	675.4	474.5	762.6	729.0	518.1	434.7	na
Korea, Rep. of	617.7	815.2	504.8	569.8	795.4	980.3	1 003.5	na
Malaysia	642.3	767.6	654.9	771.1	798.8	1 015.6	1 026.9	na
New Zealand	0.0	0.1	0.0	245.6	218.6	220.4	243.5	na
Philippines	78.3	137.4	0.0	0.0	30.0	0.0	0.0	na
Saudi Arabia	200.0	204.0	171.7	169.3	212.0	219.5	132.0	na
Singapore	15.0	30.0	0.0	0.0	0.0	0.0	0.0	na
United States	107.7	75.0	62.9	83.2	88.0	108.3	83.5	na
Other countries	396.0	223.5	269.6	0.5	0.8	102.8	76.1	na
Total	3 934	4 028	2 966	3 499	3 975	3 932	4 153	3 914
Raw sugar in bags	8.6	7.5	7.2	6.3	7.0	7.0	3.7	1.9
Refined sugar	155.5	95.7	113.1	138.5	185.4	121.0	113.6	169.5
Total	4 098	4 131	3 087	3 644	4 167	4 060	4 270	4 085.5
(value, \$m)	1 385	1 095	1 178	1 430	1 220	982	1 140	1 511

^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 Mt	Total supply Mt	Consumption Mt	Closing stocks Mt	Ratio ^b %	Trade ^c Mt	World price ^d	
							US terms US\$/lb	Australian terms A\$/t ^e
1960-61	56.1	70.9	na	na	na	na	na	59.1
1961-62	52.4	69.4	na	na	na	na	na	48.6
1962-63	51.3	64.8	na	na	na	na	na	120.8
1963-64	54.7	64.8	na	na	na	na	na	156.8
1964-65	66.8	78.0	na	na	na	na	na	49.6
1965-66	63.1	81.9	na	na	na	na	na	37.5
1966-67	65.6	84.8	na	na	na	na	na	33.4
1967-68	97.9	87.0	na	na	na	na	na	36.9
1968-69	68.4	89.0	na	na	na	na	na	57.9
1969-70	74.2	93.8	na	na	na	na	na	69.3
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	24.7	467.8
1981-82	100.9	126.5	92.2	33.3	(36.1)	31.6	10.4	211.0
1982-83	100.6	133.9	94.4	38.7	(41.0)	29.6	7.6	184.9
1983-84	98.0	136.7	96.3	39.5	(41.0)	29.6	6.7	164.7
1984-85	100.4	139.9	98.0	42.0	(42.9)	29.2	3.7	108.6
1985-86	98.6	140.6	100.0	39.0	(39.0)	28.8	6.0	192.4
1986-87	104.2	143.2	105.9	35.8	(33.8)	28.7	6.2	203.2
1987-88	104.7	140.5	107.2	33.4	(31.1)	27.9	9.0	265.5
1988-89	104.6	138.0	107.0	31.1	(29.0)	35.2	11.6	319.1
1989-90	109.1	140.2	109.5	30.6	(28.0)	34.7	13.9	397.0
1990-91	115.7	146.3	110.4	35.0	(31.8)	34.4	9.4	264.6
1991-92	116.9	151.9	111.0	40.0	(36.0)	32.2	9.1	266.4
1992-93	112.7	152.7	111.9	39.8	(35.6)	32.6	9.6	304.8
1993-94	111.4	151.2	112.2	37.6	(33.5)	34.1	10.6	346.4
1994-95	116.1	153.7	114.7	38.2	(33.3)	35.5	13.6	411.7
1995-96	125.7	163.9	119.2	40.4	(33.9)	36.1	12.3	360.1
1996-97	123.7	164.1	122.1	41.9	(34.3)	35.6	11.3	331.6
1997-98	127.8	169.7	125.1	44.7	(35.7)	36.9	10.8	374.1
1998-99	135.3	180.0	125.6	54.3	(43.3)	39.3	7.2	252.0
1999-00	131.7	186.0	127.4	58.7	(46.0)	37.1	6.2	253.7
2000-01	130.7	189.4	131.1	58.3	(44.5)	39.4	9.8	407.2
2001-02	137.3	195.6	135.6	60.0	(44.2)	43.5	7.2	287.3
2002-03	148.3	208.3	140.8	66.1	(46.9)	43.6	7.5	282.0
2003-04	143.0	209.1	144.5	64.6	(44.7)	45.0	6.3	196.5
2004-05	144.4	209.0	147.6	61.4	(41.6)	45.9	8.4	247.4
2005-06	149.7	220.7	150.6	60.5	(40.2)	46.5	7.5	246.8

^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.

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World sugar production, by region and country ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Europe	28.79	28.17	27.73	26.08	27.99	27.12	29.72	28.18
Eastern Europe	6.68	6.08	6.44	6.07	6.36	6.86	5.58	6.16
Poland ^b	2.24	1.96	2.18	1.69	2.01	2.08	na	na
Russian Federation	1.35	1.63	1.73	1.72	1.86	2.19	2.45	2.75
Ukraine	2.03	1.64	1.72	1.83	1.55	1.68	1.95	2.06
Other	1.06	0.85	0.81	0.84	0.94	0.92	1.18	1.35
Western Europe	22.12	22.09	21.29	20.00	21.62	20.26	24.14	22.02
European Union ^c	17.83	18.35	17.50	16.58	17.79	16.83	22.11	21.79
Turkey	2.69	2.29	2.43	1.86	2.27	1.98	2.03	2.10
Other	1.60	1.45	1.37	1.57	1.56	1.45	0.24	0.24
Africa	8.77	8.87	9.35	9.40	9.36	9.44	9.79	10.40
Mauritius	0.50	0.54	0.69	0.58	0.55	0.55	0.59	0.59
South Africa	2.63	2.43	2.65	2.45	2.55	2.30	2.40	2.63
Other	5.65	5.90	6.02	6.38	6.26	6.59	6.79	7.19
Americas	49.19	46.37	47.24	50.96	52.71	55.00	57.60	56.98
Brazil	21.60	17.53	19.07	22.72	25.33	26.69	29.61	30.40
Colombia	2.24	2.36	2.25	2.50	2.64	2.72	2.63	2.47
Cuba	3.85	4.12	3.60	3.70	2.25	2.50	1.42	1.30
Guatemala	1.55	1.63	1.65	1.95	1.85	2.00	2.18	2.24
Mexico	4.99	4.99	5.24	5.17	5.34	5.36	6.10	5.47
United States	7.60	8.21	7.91	7.17	7.63	7.85	7.17	6.83
Other	7.37	7.54	7.53	7.75	7.66	7.89	8.16	8.28
Asia	42.50	42.56	41.48	45.92	52.47	45.30	41.96	48.64
China	9.70	7.44	6.73	9.30	11.35	10.78	9.95	9.59
India	16.77	19.60	19.75	19.56	21.73	14.70	13.95	20.90
Indonesia	1.63	1.71	1.78	1.90	1.83	2.01	2.30	2.40
Pakistan	3.78	2.65	2.65	3.20	3.83	4.30	3.30	2.80
Philippines	1.69	1.71	1.88	1.95	2.23	2.41	2.25	2.15
Thailand	5.48	5.83	5.44	6.50	7.67	6.94	5.43	5.08
Other	3.46	3.62	3.26	3.53	3.84	4.17	4.18	5.73
Oceania	6.07	5.73	4.88	4.92	5.78	6.19	5.36	5.50
Australia	5.68	5.34	4.47	4.58	5.40	5.81	4.98	5.11
Fiji	0.35	0.34	0.37	0.29	0.33	0.32	0.33	0.33
Other	0.05	0.05	0.04	0.05	0.05	0.06	0.05	0.06
Total	135.32	131.70	130.68	137.28	148.32	143.02	144.40	149.70

^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, then twenty five countries from 2004-05. ^{na} Not available.

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

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Volume of world sugar trade, by country ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Australia	4.08	4.01	3.11	3.83	3.94	3.90	4.25	4.04
Brazil	11.25	8.83	8.98	12.63	13.96	15.72	19.22	17.80
China	0.57	0.39	0.18	0.42	0.13	0.04	0.12	0.15
Colombia	0.89	0.94	0.96	1.05	1.35	1.15	1.07	0.91
Cuba	3.23	3.44	2.93	3.07	1.79	2.01	0.91	0.61
Dominican Republic	0.19	0.18	0.19	0.19	0.15	0.21	0.18	0.18
European Union ^b	7.72	8.51	9.24	6.88	8.40	7.16	7.33	7.25
Fiji	0.35	0.32	0.30	0.27	0.28	0.24	0.32	0.28
Guatemala	1.13	1.13	1.43	1.32	1.25	1.49	1.07	1.56
Guyana	0.28	0.28	0.27	0.28	0.30	0.31	0.29	0.30
India	0.03	0.01	1.18	1.33	1.28	0.65	0.23	0.68
Korea, Rep. of	0.32	0.36	0.31	0.32	0.33	0.34	0.33	0.28
Mauritius	0.56	0.44	0.64	0.63	0.56	0.59	0.55	0.59
Mexico	0.60	0.49	0.14	0.52	0.21	0.11	0.11	0.47
Poland ^c	0.47	0.42	0.43	0.06	0.46	0.49	na	na
South Africa	1.31	1.30	1.45	1.29	1.06	0.99	1.26	1.29
Swaziland	0.48	0.55	0.58	0.48	0.54	0.63	0.63	0.52
Thailand	3.20	3.90	3.66	4.56	4.75	5.12	3.23	2.63
Ukraine	0.15	0.14	0.12	0.09	0.37	0.34	0.11	0.04
United States	0.15	0.11	0.11	0.11	0.13	0.13	0.21	0.16
Other countries	7.45	6.99	7.95	8.73	9.48	10.81	11.64	na
Total ^d	44.42	42.70	44.18	48.05	50.71	52.42	53.06	46.80
Imports								
Algeria	1.00	0.89	0.97	1.02	1.09	1.20	1.34	1.37
Canada	1.16	1.11	1.24	1.10	1.37	1.39	1.26	1.35
China	0.54	0.64	0.89	1.28	0.95	1.17	1.10	1.47
Egypt	1.30	1.04	0.90	1.14	1.05	1.20	1.20	1.17
European Union ^b	4.27	4.75	5.24	5.24	5.60	6.11	5.43	2.40
Indonesia	2.29	1.67	1.43	2.28	2.03	2.23	1.83	1.63
Iran	1.11	1.02	1.00	1.01	0.95	0.64	0.59	0.75
Israel	0.50	0.48	0.51	0.54	0.59	0.62	0.63	0.58
Japan	1.55	1.54	1.54	1.53	1.57	1.32	1.52	1.49
Korea, Rep. of	1.37	1.47	1.48	1.54	1.54	1.63	1.64	1.42
Malaysia	1.19	1.18	1.17	1.31	1.49	1.49	1.47	1.38
Morocco	0.49	0.58	0.51	0.54	0.58	0.75	0.81	0.82
Nigeria	0.83	0.79	1.06	1.41	1.50	1.37	1.44	1.33
Pakistan	0.00	0.28	1.28	0.24	0.03	0.05	0.63	1.55
Russian Federation	5.22	5.21	5.08	5.10	5.23	4.09	3.90	3.60
Saudi Arabia	0.64	0.76	0.83	0.92	0.98	0.99	1.03	0.95
Syria	0.71	0.70	0.87	1.06	1.10	1.17	1.12	0.90
Ukraine	0.32	0.26	0.44	0.27	1.46	0.64	0.31	0.23
United States	1.85	1.38	1.42	1.39	1.47	1.65	1.52	2.95
Other countries	14.49	14.16	14.35	15.17	16.21	17.60	21.24	19.40
Total ^d	41.99	41.23	43.51	45.36	48.72	48.82	50.00	46.70

^a Includes both raw and white sugar measured in raw sugar equivalents, September–August years. ^b Regarded as fifteen countries to 2003-04, then twenty five countries from 2004-05. ^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.

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Summary of Australian statistics for wheat ^a

	Area ^c '000 ha	Yield t/ha	Production		Exports ^b		Domestic use ^e kt	Closing stocks ^f kt
			Volume ^c kt	Unit value \$/t	Volume kt	Unit value ^d \$/t		
1962-63	6 664	1.25	8 353	53.8	6 222	52.0	1 980	638
1963-64	6 666	1.34	8 924	52.4	6 894	52.0	2 110	558
1964-65	7 251	1.38	10 037	51.6	7 268	52.0	2 662	665
1965-66	7 087	1.00	7 067	54.5	4 755	51.0	2 525	452
1966-67	8 426	1.51	12 699	54.3	8 526	55.0	2 437	2 188
1967-68	9 081	0.83	7 547	57.7	5 644	53.0	2 682	1 409
1968-69	10 844	1.37	14 804	49.4	6 585	53.0	2 370	7 258
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	3 350	2 740
1988-89	8 827	1.59	14 061	209.8	11 427	214.4	2 865	2 509
1989-90	9 004	1.58	14 214	195.2	10 993	213.0	2 403	3 327
1990-91	9 218	1.63	15 066	132.0	12 002	136.5	3 227	3 164
1991-92	7 183	1.47	10 557	200.2	7 136	202.4	4 082	2 504
1992-93	9 101	1.78	16 184	165.9	10 359	206.8	4 172	4 157
1993-94	8 383	1.97	16 479	174.0	13 818	174.7	3 888	2 930
1994-95	7 891	1.14	8 972	237.1	6 351	234.1	3 907	1 644
1995-96	9 221	1.79	16 504	260.8	13 319	286.4	4 088	741
1996-97	10 936	2.10	22 924	212.8	19 224	226.9	3 477	964
1997-98	10 439	1.84	19 224	197.7	15 725	240.9	4 079	384
1998-99	11 543	1.86	21 464	186.9	16 448	203.3	4 347	1 053
1999-00	12 168	2.03	24 758	195.1	17 838	205.4	4 666	3 308
2000-01	12 141	1.82	22 108	232.1	16 142	267.9	4 791	4 483
2001-02	11 529	2.11	24 299	261.6	16 317	277.9	4 894	7 570
2002-03	11 170	0.91	10 132	265.7	9 107	283.1	5 666	2 930
2003-04	13 067	2.00	26 132	215.7	17 867	231.1	5 139	6 056
2004-05	13 399	1.63	21 905	197.1	14 675	213.7	5 282	8 003
2005-06	12 980	1.93	25 090	227.2	15 967	221.5	5 529	11 597

^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 Includes AVVB 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								
1992-93	'000 ha	1 800	950	800	4 000	1 550	1	9 101
1993-94	'000 ha	1 978	780	555	3 852	1 216	2	8 383
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	3 500	1 276	958	5 221	2 017	8	12 980
Yield								
1992-93	t/ha	2.33	2.53	0.88	1.55	1.73	4.00	1.78
1993-94	t/ha	2.57	2.59	1.00	1.74	1.74	3.00	1.97
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	4.50	1.86
1999-00	t/ha	2.51	2.14	1.74	1.98	1.40	3.33	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	2.12	1.45	1.82	1.77	2.72	1.93
Production ^b								
1992-93	kt	4 200	2 400	700	6 200	2 680	4	16 184
1993-94	kt	5 086	2 022	555	6 689	2 121	6	16 479
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	24 299
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	7 921	2 705	1 385	9 478	3 578	23	25 090

^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 For 1991-92 to 1992-93, excludes establishments with an EVAO less than \$22 500; from 1993-94, 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.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Egypt	1 496	1 018	957	1 680	602	2 534	752	1 818
Ethiopia	46	10	35	10	24	29	0	8
South Africa	196	189	141	98	48	247	183	85
Asia								
Bangladesh	367	476	252	133	130	141	162	179
China	177	136	60	46	38	755	1 893	303
India	586	446	7	0	0	4	0	93
Indonesia	1 724	1 868	2 192	2 097	1 686	2 647	2 720	3 016
Japan	1 110	1 189	1 161	1 195	1 134	1 250	1 171	1 106
Korea, Rep. of	1 138	1 148	1 139	953	1 014	1 065	1 213	1 002
Malaysia	838	790	775	682	370	737	888	780
Pakistan	1 290	1 286	0	0	9	140	653	146
Singapore	115	94	98	95	65	48	118	68
Sri Lanka	189	102	262	209	117	132	66	46
Thailand	341	296	272	285	291	422	478	545
Middle East								
Bahrain	40	0	44	0	0	6	3	0
Iran	1 608	1 520	2 352	2 420	1 064	0	0	425
Iraq	1 179	2 265	2 587	2 245	1 037	1 111	1 550	715
Kuwait	229	176	180	230	175	259	305	341
Oman	187	376	136	114	27	91	63	86
Qatar	47	36	28	0	0	0	0	61
United Arab Emirates	519	528	399	226	142	196	241	525
Yemen	529	588	507	450	412	198	314	499
Oceania								
Fiji	79	89	93	102	120	122	134	131
New Zealand	110	159	191	305	308	314	339	313
Papua New Guinea	115	148	136	110	130	99	134	155
Total	16 441	17 329	16 621	16 464	10 845	15 073	15 779	15 168
(value, \$m)	3 467	3 481	4 197	4 612	3 109	3 475	3 488	3 296

^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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	kt	kt	kt	kt	kt	kt	kt	kt
Opening stocks	384	1 053	3 308	4 483	7 570	2 930	6 056	8 003
Production	21 464	24 758	22 108	24 299	10 132	26 132	21 905	25 090
Availability	21 848	25 811	25 416	28 782	17 702	29 062	27 961	33 093
Total domestic use	4 347	4 666	4 791	4 894	5 666	5 139	5 282	5 529
Food	2 158	2 189	2 272	2 291	2 378	2 351	2 361	2 408
Feed ^b	1 641	1 930	2 000	2 100	2 700	2 185	2 338	2 618
Seed	548	546	519	503	588	603	584	501
Exports								
Wheat	16 193	17 599	15 888	16 075	8 926	17 581	14 349	15 669
Flour ^c	256	239	254	242	180	286	325	298
Total	16 448	17 838	16 142	16 317	9 107	17 867	14 675	15 967
Closing stocks	1 053	3 308	4 483	7 570	2 930	6 056	8 003	11 597

^a 1 October to 30 September. ^b Calculated as residual: production less exports less other domestic uses plus net change in stocks. ^c 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

	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	171.00	195.24
1990-91	126.58	161.07	135.83	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	234.72	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	211.87	261.59
2002-03	185.03	316.46	309.69	265.68
2003-04	183.56	257.71	221.51	215.67
2004-05	175.43	233.55	194.66	197.06
2005-06	195.03	261.58	192.15	227.19

^a Average of daily asking prices for Australian standard white wheat fob eastern states for the relevant financial year. ^b Administered pricing of domestic wheat ceased after the 1988-89 season. Sydney cash price, ASV (July-June average) from 1989-90. **na** Not available.
Sources: International Grains Council, *Grain Market Report*, London; ABARE.

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Summary of world statistics for wheat

	Area million ha	Production Mt	Use Mt	Closing stocks ^a		Stocks to use ratio %	Trade ^c Mt	Use per person kg	Price ^d US\$/t
				World ^a Mt	Exporters ^b Mt				
1960-61	202	241	232	82	63	35	43	77	62.00
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	216	582	584	203	53	35	102	96	128.50
2001-02	213	582	586	199	47	34	107	95	127.51
2002-03	212	566	600	165	43	27	107	95	160.46
2003-04	208	556	588	125	41	21	103	93	160.49
2004-05	217	629	616	138	56	22	110	95	153.87
2005-06	216	618	621	135	55	22	108	96	176.28

^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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Algeria	2.3	1.4	0.8	2.0	1.5	3.0	2.7	2.4
Egypt	6.0	6.3	6.6	6.3	6.8	6.8	7.2	8.1
Morocco	4.4	2.2	1.4	3.3	3.4	5.1	5.5	3.0
South Africa	1.7	1.7	2.4	2.5	2.4	1.5	1.7	1.9
Americas								
Argentina	11.5	15.7	16.5	15.3	12.3	14.6	16.0	12.5
Brazil	2.2	2.4	1.7	3.2	2.9	5.9	6.0	4.9
Canada	24.1	26.9	26.8	20.6	16.2	23.6	25.9	26.8
Mexico	3.2	3.1	3.3	3.3	3.3	2.9	2.9	3.0
United States	69.3	62.5	60.8	53.0	43.7	63.8	58.7	57.3
Asia								
China	109.7	113.9	99.7	93.9	90.3	86.5	92.0	97.5
India	65.9	70.8	76.4	69.7	71.8	65.1	72.1	68.6
Japan	0.6	0.6	0.7	0.7	0.8	0.9	0.9	0.9
Kazakhstan	4.8	11.2	9.1	12.7	12.8	11.5	9.9	11.0
Pakistan	18.7	17.9	21.1	19.0	18.2	19.2	19.5	21.6
Uzbekistan	3.6	3.7	3.6	3.2	4.8	5.4	4.7	5.1
Europe								
Bulgaria	3.3	3.2	3.3	3.1	3.5	1.7	3.6	3.5
Czech Republic	3.8	4.0	4.1	4.5	3.8	2.6	5.0	4.1
European Union ^a	103.7	96.5	104.4	90.5	103.2	106.2	136.1	122.6
France	39.8	37.2	37.5	31.4	39.0	30.5	39.7	37.0
Germany	20.1	19.6	21.6	22.8	20.8	19.3	25.4	23.6
Italy	8.1	7.3	6.9	6.2	7.5	6.2	8.6	7.3
Spain	5.3	4.9	7.3	4.7	6.3	6.1	6.8	3.3
Sweden	2.3	1.7	2.4	2.3	2.1	2.3	2.4	2.3
United Kingdom	15.5	14.9	16.8	11.6	16.1	14.3	15.5	14.9
Hungary	4.9	2.6	3.7	5.2	3.9	2.9	6.0	5.1
Poland	9.5	9.1	8.5	9.3	9.3	7.9	9.9	8.8
Romania	4.7	4.4	4.4	7.7	4.4	2.5	7.8	7.6
Russian Federation	27.0	31.0	34.5	46.9	50.6	34.1	45.4	47.6
Serbia and Montenegro	2.9	2.1	2.3	2.5	2.2	1.4	2.8	2.1
Slovakia	1.8	1.2	1.3	1.8	1.6	0.9	1.7	1.6
Ukraine	14.9	13.6	10.2	21.0	19.8	3.6	16.5	18.7
Middle East								
Iran	11.0	8.0	7.0	7.5	12.5	13.5	14.0	14.5
Saudi Arabia	1.8	1.8	1.8	2.0	2.0	2.0	2.1	2.2
Syria	4.1	2.6	2.7	4.7	4.5	4.7	4.5	4.7
Turkey	18.5	16.5	17.5	15.5	17.3	18.5	18.5	18.0
Oceania								
Australia	21.5	24.8	22.1	24.3	10.1	26.1	21.9	25.1
Total ^b	585.9	584.7	582.3	581.7	566.0	556.0	629.0	618.0

^a Regarded as fifteen countries to 2002-03, then twenty five countries from 2003-04. Production totals for individual EU countries sourced from International Grains Council from 2000-01 onwards. ^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.

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Volume of world wheat trade, by country ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	4.3	4.8	5.6	4.6	6.1	3.9	5.4	5.5
Egypt	7.5	5.9	6.1	6.9	6.4	7.3	7.9	7.7
Morocco	2.8	3.1	3.6	3.1	2.7	2.4	2.3	2.6
Nigeria	1.5	1.3	1.9	2.4	2.3	2.4	3.0	3.7
Tunisia	1.1	1.2	1.6	1.3	2.2	0.8	1.1	1.2
Americas								
Brazil	7.1	7.7	7.2	7.0	6.7	5.7	5.5	6.1
Cuba	1.0	1.1	0.0	1.1	0.8	0.7	0.8	0.8
Mexico	2.5	2.6	3.1	3.2	3.2	3.6	3.7	3.6
Peru	1.3	1.2	1.5	1.4	1.2	1.5	1.5	1.7
Venezuela	1.3	1.4	1.4	1.4	1.0	1.5	1.5	1.6
Asia								
Bangladesh	2.0	1.6	1.3	1.6	1.3	2.0	1.8	2.3
China	0.8	1.0	0.2	1.1	0.4	3.7	6.7	1.0
Chinese Taipei	1.0	1.1	1.0	1.0	1.0	1.2	1.1	1.2
India	2.2	1.4	0.4	0.0	0.0	0.0	0.0	0.1
Indonesia	3.1	3.7	4.1	3.7	4.0	4.8	4.8	4.9
Japan	5.6	6.0	5.9	5.8	5.6	5.8	5.7	5.5
Korea, Rep. of	4.7	3.8	3.1	4.0	4.1	3.4	3.6	3.9
Pakistan	3.1	2.1	0.0	0.2	0.2	0.2	1.4	1.0
Philippines	2.3	3.0	3.1	2.9	3.2	3.0	2.6	3.1
Europe								
European Union ^b	3.6	5.1	4.7	10.7	13.9	5.6	7.0	7.1
Russian Federation	2.5	5.1	1.6	0.6	1.0	1.0	1.2	1.1
Ukraine	0.1	0.5	0.7	0.0	0.8	3.4	0.0	0.1
Middle East								
Iran	2.3	7.2	6.3	5.3	2.1	0.2	0.2	1.0
Iraq	2.0	2.7	3.2	2.8	1.6	1.9	3.1	4.6
Turkey	1.9	1.5	0.5	1.0	1.2	1.1	0.4	0.1
Yemen	2.1	2.0	2.1	1.8	1.8	1.6	1.9	2.1
Exports								
Americas								
Argentina	8.6	11.6	11.3	10.1	6.1	7.4	13.1	8.0
Canada	14.7	19.2	17.3	16.3	9.2	15.6	15.4	15.5
United States	28.5	35.4	36.2	32.4	23.7	32.2	28.2	26.9
Europe								
European Union ^b	14.6	17.4	15.2	11.5	15.5	10.3	13.6	14.2
Russian Federation	1.4	0.6	1.1	4.6	13.0	4.0	7.9	10.5
Ukraine	4.3	2.5	0.8	5.5	6.7	0.1	4.3	6.5
Asia								
China	0.4	0.5	0.5	1.3	1.4	2.4	0.8	0.8
India	0.0	0.2	2.1	3.1	5.4	5.4	1.7	0.6
Japan	0.4	0.6	0.5	0.5	0.5	0.5	0.4	0.4
Kazakhstan	1.9	3.1	3.7	3.8	5.6	4.6	2.7	2.8
Turkey	2.6	1.9	1.6	0.7	0.8	0.7	2.1	2.8
Oceania								
Australia ^c	16.4	17.3	16.6	16.5	10.8	15.1	15.8	15.2
Total ^d	101.3	114.2	103.2	108.5	105.9	102.7	109.8	108.4

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

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US wheat supply and disposal ^a

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 ^b	2005-06 ^b
Area									
– planted	million ha	26.6	25.4	25.3	24.1	24.4	25.1	24.2	23.1
– harvested	million ha	23.9	21.8	21.5	19.7	18.5	21.4	20.2	20.3
Yield	t/ha	2.90	2.87	2.83	2.69	2.36	2.98	2.91	2.82
Production	Mt	69.3	62.5	60.8	53.0	43.7	63.8	58.7	57.3
Opening stocks	Mt	19.7	25.7	25.8	23.8	21.2	13.4	14.9	14.7
Imports	Mt	2.8	2.6	2.4	2.9	2.1	1.7	1.9	2.2
Availability	Mt	91.8	90.8	89.1	79.8	67.0	78.9	75.5	74.2
Domestic use	Mt	37.6	35.4	36.2	32.4	30.4	32.5	31.8	31.3
– food	Mt	24.8	25.3	25.8	25.2	25.0	24.8	24.8	24.9
– feed	Mt	10.6	7.6	8.2	5.0	3.1	5.5	5.0	4.3
– seed	Mt	2.2	2.5	2.2	2.3	2.3	2.2	2.1	2.1
Exports	Mt	28.5	29.6	28.9	26.2	23.1	31.5	29.0	27.5
Closing stocks	Mt	25.7	25.8	23.8	21.2	13.4	14.9	14.7	15.5
– Commodity Credit Corporation	Mt	3.5	2.8	2.6	2.7	1.8	1.7	1.5	1.7
– Free	Mt	22.3	23.0	21.2	18.5	11.6	12.2	12.9	14.0
Farm price	US\$/bus	2.65	2.48	2.62	2.78	3.56	3.40	3.40	3.42
Loan rate	US\$/bus	2.58	2.58	2.58	2.58	2.80	2.80	2.75	na
Export price ^c	US\$/t	119.08	113.17	128.50	127.51	160.46	160.49	153.87	176.28

^a June–May year. ^b US Department of Agriculture estimate. ^c US hard red winter wheat (ordinary), fob Gulf; July–June average. **na** Not available.

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 quotations, by country and category

	Australian prime hard 14% (eastern states) US\$/t	No. 1 Canadian western red spring 12.5% (Vancouver) ^a US\$/t	Australian standard white (eastern states) US\$/t	US no. 2 hard red winter (Gulf) US\$/t	Argentinean bread wheat US\$/t	EU standard (Rouen) US\$/t	US no. 2 soft red winter (Gulf) US\$/t
1980-81	209.00	230.00	181.00	183.00	204.00	170.00	175.00
1981-82	185.00	201.00	165.00	170.00	178.00	150.00	148.00
1982-83	178.00	190.00	163.00	160.00	148.00	132.00	131.00
1983-84	178.00	193.00	153.83	154.00	137.00	146.00	142.00
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
2005							
January	205.03	212.99	180.80	157.00	106.75	143.84	144.27
February	198.93	207.28	174.57	154.00	115.75	137.18	148.10
March	207.25	206.02	181.42	158.00	127.50	134.29	158.95
April	196.95	197.51	170.91	148.00	129.40	132.71	137.46
May	193.85	199.08	172.46	149.00	133.25	128.45	135.64
June	197.40	204.83	172.75	150.00	132.75	129.11	136.54
July	195.00	199.11	171.42	149.00	143.40	128.00	133.16
August	207.90	206.22	177.45	158.00	141.75	132.00	133.53
September	217.56	216.78	187.43	169.00	136.40	124.44	139.14
October	219.48	215.66	192.15	174.00	135.75	124.96	139.22
November	214.18	214.09	187.10	166.00	134.50	126.15	133.50
December	215.29	209.18	187.81	168.14	130.20	124.09	138.54
2006							
January	216.03	208.92	189.14	170.56	132.75	125.77	144.45
February	227.65	216.79	199.63	184.62	137.25	134.10	153.41
March	225.24	213.47	198.79	182.38	135.00	137.20	145.74
April	233.75	225.23	203.89	185.63	136.25	136.76	141.08
May	248.88	235.52	219.37	202.78	145.75	146.91	154.64
June	252.40	234.00	222.25	205.00	156.00	145.80	147.80
July	251.50	236.75	225.58	211.00	158.50	152.50	147.50
August	241.50	223.75	216.43	201.00	161.25	165.75	147.50

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

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 million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports ^b Mt	Closing stocks Mt
United States (June–May)						
2000-01	21.5	2.83	60.8	36.2	36.2	23.8
2001-02	19.7	2.69	53.0	32.4	32.4	21.2
2002-03	18.5	2.36	43.7	30.4	23.7	13.4
2003-04	21.4	2.98	63.8	32.5	32.2	14.9
2004-05	20.2	2.91	58.7	31.8	28.2	14.7
2005-06	20.3	2.82	57.3	31.3	26.9	15.5
Canada (August–July)						
2000-01	11.0	2.45	26.8	7.8	17.1	9.7
2001-02	10.6	1.94	20.6	7.4	16.2	6.7
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	9.9	2.62	25.9	9.2	14.8	8.0
2005-06	9.8	2.73	26.8	9.2	15.8	9.7
Argentina (December–November)						
2000-01	6.4	2.58	16.5	5.0	11.5	0.6
2001-02	6.8	2.24	15.3	4.9	9.8	1.1
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	1.7
2004-05	6.1	2.62	16.0	5.3	11.4	1.0
2005-06	5.0	2.50	12.5	5.2	7.6	0.7
Australia (October–September)						
2000-01	12.1	1.82	22.1	4.8	16.1	4.5
2001-02	11.5	2.11	24.3	4.9	16.3	7.6
2002-03	11.2	0.91	10.1	5.7	9.1	2.9
2003-04	13.1	2.00	26.1	5.1	17.9	6.1
2004-05	13.4	1.63	21.9	5.3	14.7	8.0
2005-06	13.0	1.93	25.1	5.5	16.0	11.6
European Union (July–June) ^c						
2000-01	18.0	5.78	104.4	91.1	14.3	14.6
2001-02	16.7	5.42	90.5	90.5	10.8	12.6
2002-03	17.9	5.76	103.2	95.8	15.4	14.9
2003-04	22.1	4.81	106.2	107.5	11.6	11.7
2004-05	23.0	5.92	136.1	117.0	15.1	23.0
2005-06	22.4	5.47	122.6	119.6	15.6	17.6
Total ^{cd}						
2000-01	69.0	3.34	230.6	144.9	96.2	53.1
2001-02	65.4	3.12	203.7	140.1	86.2	47.3
2002-03	62.2	2.98	185.5	145.4	63.9	43.0
2003-04	73.1	3.21	234.3	157.8	85.5	41.0
2004-05	72.6	3.56	258.6	168.6	82.7	56.0
2005-06	70.5	3.47	244.3	170.8	80.5	55.0

^a The marketing period in each country is shown in parentheses. ^b Includes wheat equivalent of flour and other wheat products. ^c Regarded as twenty five countries from 2003-04. 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		Average price	
		Shorn	Total		(at 30 June) d	Eastern market	Auction	
						indicator (clean) e	(greasy)	
	million	kt	kt	%	'000 bales	kt	c/kg	c/kg
1965-66	157.6	682.0	754.2	58.6	na	na	na	110.4
1966-67	164.2	726.8	799.4	59.1	na	na	na	104.5
1967-68	166.9	728.0	802.6	58.3	na	na	na	92.0
1968-69	168.9	804.3	883.5	59.3	na	na	na	98.5
1969-70	174.3	837.4	925.8	58.9	na	na	na	82.8
1970-71	171.7	800.2	890.0	59.0	582.2	73.9	na	64.7
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	694.5	65.6	1 476.4	263.4	627.0	357.3
2000-01	110.9	589.5	645.1	65.8	796.5	141.4	764.0	512.0
2001-02	106.2	536.9	587.2	65.7	429.8	81.0	841.0	526.7
2002-03	99.3	501.8	551.1	64.2	123.9	105.0	1 049.0	682.0
2003-04	101.3	466.3	509.5	64.2	707.7	156.3	820.0	533.0
2004-05	101.1	474.8	519.7	63.9	883.3	157.0	766.6	467.1
2005-06	100.1	456.0	509.0	64.1	896.7	157.6	713.3	435.9

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, includes stocks held on farms and unsold wool held in brokers' stores. **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)							
1995-96	45.69	26.33	11.42	38.20	16.23	4.10	141.97
1996-97	53.99	31.50	10.34	38.89	17.86	4.35	156.92
1997-98	43.22	39.78	10.45	109.69	18.55	4.47	226.17
1998-99	40.81	34.42	11.16	33.06	18.81	4.32	142.57
1999-00	41.67	32.91	9.67	32.95	19.16	4.22	140.57
2000-01	48.80	24.15	10.84	27.94	14.89	3.89	130.51
2001-02	42.83	27.08	8.92	25.06	14.77	3.92	122.59
2002-03	43.77	24.42	5.38	24.86	14.28	3.97	116.69
2003-04	36.34	22.49	4.50	24.51	13.71	3.52	105.08
2004-05	38.91	24.23	5.84	23.88	12.70	2.89	108.44
2005-06	35.08	21.61	6.72	25.75	12.54	2.94	104.64
Average cut per head (kg greasy)							
1995-96	4.59	4.39	4.21	4.35	5.22	4.05	4.51
1996-97	4.49	4.18	4.55	4.12	4.73	4.49	4.37
1997-98	4.23	3.83	4.39	1.40	4.73	3.86	2.83
1998-99	4.45	4.51	4.65	4.40	4.76	3.76	4.49
1999-00	4.59	4.65	4.72	4.34	4.79	4.20	4.57
2000-01	4.50	4.58	4.51	4.33	5.09	3.61	4.52
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	4.30
2003-04	4.49	4.17	4.12	4.51	4.84	3.93	4.44
2004-05	4.26	4.11	4.40	4.51	5.03	4.17	4.38
2005-06	4.25	4.27	4.27	4.46	4.72	4.08	4.36
Shorn wool production (kt greasy)							
1995-96	209.83	115.67	48.10	166.00	84.69	16.60	640.89
1996-97	242.36	131.68	47.01	160.08	84.43	19.50	685.06
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	589.45
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	501.79
2003-04	163.10	93.79	18.55	110.61	66.41	13.87	466.32
2004-05	165.83	99.55	25.67	107.80	63.90	12.04	474.80
2005-06	148.93	92.32	28.68	114.69	59.18	12.01	456.00
Clean yield (%)							
1995-96	64.40	68.38	na	62.21	62.55	70.88	65.68
1996-97	65.30	68.36	na	61.69	62.10	71.82	65.85
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	65.70
2002-03	65.40	66.30	63.00	61.00	61.80	70.80	64.20
2003-04	63.90	65.80	61.60	62.90	62.70	71.00	64.20
2004-05	63.50	65.90	62.30	62.00	62.00	70.60	63.90
2005-06	63.60	65.70	61.30	63.90	61.20	70.20	64.10

^a Includes the Northern Territory and the Australian Capital Territory. **na** Not available.

Sources: ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Shearing and Wool Production Forecast, Australia*, cat. no. 7210.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra.

226 Australian sheep disposal and wool production

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Sheep disposal ^a								
Opening number ^b	million	115.5	118.6	110.9	106.2	99.3	101.3	101.1
Lambs marked	million	41.7	38.2	37.7	33.9	36.3	37.7	38.5
Lambs slaughtered ^c	million	16.7	18.8	17.6	17.1	16.4	16.8	18.6
Sheep slaughtered ^c	million	15.3	16.5	15.0	14.6	10.0	11.2	11.9
Live sheep exports	million	4.9	5.9	6.4	5.8	3.8	3.2	4.2
Sheep deaths	million	1.6	4.6	3.4	3.2	4.0	6.7	4.7
Closing number ^d	million	118.6	110.9	106.2	99.3	101.3	101.1	100.1
Wool production ^e								
Number shorn	million	140.6	130.5	122.6	116.7	105.1	108.4	104.6
Cut per head	kg	4.57	4.52	4.38	4.30	4.44	4.38	4.36
Wool production (greasy)								
– shorn	kt	642.3	589.5	536.9	501.8	466.3	474.8	456.0
– on skins	kt	52.1	55.7	50.4	49.3	43.2	44.9	53.0
– total	kt	694.5	645.1	587.2	551.1	509.5	519.7	509.0
– clean yield	%	65.6	65.8	65.7	64.2	64.2	63.9	64.1

^a April–March years to 1998-99. From 1999-00, July–June year. ^b Sheep and lambs at 1 April on enterprises with estimated value of agricultural operations (EVAO) of \$5 000 or more. From 1999-00, numbers at 1 July. ^c For human consumption only, but excludes slaughterings on farms. ^d Sheep and lambs at 31 March on enterprises with an EVAO of \$5 000 or more. From 1999-00, numbers at 30 June. ^e July–June years.

Sources: ABS, *Selected Agricultural Commodities, Australia, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Shearing and Wool Production Forecast, Australia*, cat. no. 7210.0, Canberra; ABS, *Livestock and Livestock Products, Australia*, cat. no. 7221.0, Canberra; ABARE.

227 Average auction prices for greasy wool in principal exporting countries

	Australia ^a	New Zealand ^a	South Africa ^a
	c/kg	c/kg	c/kg
1960-61	95.64	92.05	na
1961-62	99.45	89.44	na
1962-63	108.31	97.76	na
1963-64	128.04	125.71	na
1964-65	105.45	96.15	na
1965-66	110.41	95.03	na
1966-67	104.46	80.50	na
1967-68	92.04	54.55	na
1968-69	98.48	61.90	na
1969-70	82.78	56.50	na
1970-71	64.68	53.40	56.28
1971-72	75.25	66.50	58.72
1972-73	183.77	139.26	155.87
1973-74	181.16	134.62	160.89
1974-75	126.99	90.35	101.23
1975-76	143.25	131.57	129.61
1976-77	182.73	184.23	163.37
1977-78	187.14	168.94	168.30
1978-79	205.24	202.78	187.78
1979-80	243.57	233.98	226.13
1980-81	255.97	200.73	227.16
1981-82	264.69	186.10	237.21
1982-83	269.85	191.97	237.42
1983-84	293.84	214.40	261.05
1984-85	317.80	234.26	284.08
1985-86	342.06	268.17	276.08
1986-87	395.47	336.32	331.65
1987-88	632.69	404.01	553.61
1988-89	647.26	396.31	513.24
1989-90	555.30	359.80	433.02
1990-91	413.83	243.38	297.83
1991-92	358.82	237.39	321.09
1992-93	313.53	249.44	280.83
1993-94	330.08	209.09	251.87
1994-95	504.43	314.43	392.48
1995-96	386.73	327.08	316.71
1996-97	403.01	296.41	340.42
1997-98	444.30	279.58	365.88
1998-99	323.39	231.14	250.47
1999-00	357.28	205.29	313.79
2000-01	512.00	226.88	347.76
2001-02	526.67	252.05	386.18
2002-03	682.00	285.56	359.14
2003-04	533.00	212.00	383.30
2004-05	467.11	283.55	389.50
2005-06	435.88	na	na

^a Annual average prices for July-June years, converted to Australian cents using average exchange rates. **na** Not available.

Sources: Australian Wool Exchange, Melbourne; New Zealand Wool Board, *Statistical Handbook*, Wellington; South African Wool Board, *Annual Report*, Pretoria; National Council of Wool Selling Brokers of Australia, *Statistics*, Melbourne; International Wool Textile Organisation, *Wool Statistics*, London.

228 Average world prices for synthetic fibres

	US polyester price ^a US\$/lb	Chinese Taipei polyester price ^{bc} US\$/lb	Chinese Taipei acrylic price ^{bd} US\$/lb
1982-83	73.00	na	77.00
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	na	na
2003-04	60.08	na	na
2004-05	66.25	na	na
2005-06	66.58	na	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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Volume (kt greasy equivalent)								
China	170	269	324	272	194	200	256	292
Chinese Taipei	53	58	40	37	27	21	21	17
Eastern Europe a	5	4	5	5	7	8	9	11
European Union b								
Czech Republic	13	15	21	14	9	14	13	19
France	49	39	35	25	21	19	11	1
Germany	42	29	37	22	17	16	9	7
Italy	118	136	133	108	79	62	62	47
United Kingdom	12	10	8	4	3	3	2	2
Other	41	42	51	34	22	23	23	26
Total	261	255	264	194	143	123	108	84
India	35	42	44	32	25	27	30	34
Japan	36	32	25	18	12	10	6	6
Korea, Rep. of	39	49	44	49	34	10	9	8
Thailand	11	14	14	12	13	13	11	8
Turkey	15	20	23	14	11	11	5	5
United States	17	14	12	7	5	3	4	3
Other	41	42	55	44	30	48	54	33
Total	683	800	850	683	502	474	513	501
Value (\$m)								
China	603	925	1 360	1 451	1 423	1 175	1 382	1 481
Chinese Taipei	154	172	147	181	178	108	93	73
Eastern Europe a	22	14	23	26	52	45	46	54
European Union b								
Czech Republic	45	47	84	70	57	69	55	81
France	174	137	166	138	149	114	53	5
Germany	152	103	150	124	119	82	41	27
Italy	478	589	761	595	546	347	342	257
United Kingdom	44	35	35	17	18	16	11	8
Other	138	124	195	170	147	118	107	111
Total	986	987	1 307	1 044	980	677	554	409
India	139	151	189	166	177	154	154	156
Japan	158	131	118	98	88	58	32	32
Korea, Rep. of	161	225	247	275	224	60	47	34
Thailand	47	65	73	75	100	80	63	45
Turkey	65	65	114	99	104	81	29	27
United States	82	61	56	34	36	18	22	20
Other	172	154	242	229	215	320	389	192
Total	2 590	2 952	3 877	3 679	3 575	2 776	2 812	2 523

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Scoured								
China	4.9	4.7	7.4	5.6	5.9	4.2	1.9	2.0
India	5.7	7.5	9.2	5.8	4.1	3.6	3.1	3.0
Italy	12.4	12.6	13.0	7.5	5.2	4.7	5.8	3.0
Japan	10.0	9.4	7.4	5.6	4.3	4.3	2.4	2.5
Korea, Rep. of	5.4	6.9	6.7	6.8	2.3	1.2	0.6	0.1
Malaysia	5.4	1.1	1.4	1.6	2.1	1.4	3.1	5.2
Thailand	7.2	8.4	8.2	7.7	8.5	8.1	6.2	5.2
Total	67.1	70.8	74.7	51.5	38.9	33.3	30.7	29.8
Carbonised								
China	3.9	6.6	7.2	6.7	6.4	7.0	6.8	5.5
Hong Kong	2.7	2.3	2.7	1.2	0.7	0.1	0.2	0.1
Italy	5.6	5.3	5.8	3.5	1.7	2.8	3.7	2.8
Japan	2.1	2.0	2.2	2.0	1.4	1.4	0.9	0.8
Korea, Rep. of	7.3	9.2	7.4	8.5	7.1	2.9	3.9	3.9
Turkey	0.6	1.2	1.0	0.8	0.9	1.3	1.3	1.1
Total	24.5	29.8	31.3	27.1	22.4	18.7	19.0	16.0
Tops and sliver								
China	15.1	15.4	11.1	9.2	6.6	1.1	0.2	0.2
Chinese Taipei	2.5	2.4	0.9	0.9	0.6	0.2	0.0	0.0
Italy	8.5	8.4	12.3	12.8	8.4	1.0	0.1	0.1
Iran	1.5	1.9	2.7	1.5	0.9	0.1	0.0	0.0
Japan	3.5	3.8	3.8	2.4	1.5	0.3	0.0	0.1
Korea, Rep. of	7.0	9.3	7.8	9.5	7.2	0.7	0.0	0.0
Mexico	2.5	1.4	2.4	1.5	1.0	0.2	0.0	0.0
No country detail	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	53.4	52.8	52.0	46.9	32.7	20.3	16.4	8.3
Noils and waste								
China	0.1	0.1	0.5	0.2	0.1	0.2	0.2	0.0
France	0.2	0.7	0.6	0.4	0.4	0.1	0.9	0.4
Germany	0.1	0.1	0.1	0.0	0.7	0.5	0.0	0.0
Italy	2.8	4.5	4.0	5.0	3.0	1.9	0.6	1.0
Japan	0.4	0.3	0.4	0.2	0.1	0.1	0.0	0.0
Korea, Rep. of	0.2	0.2	1.2	0.8	0.4	0.1	0.0	0.0
United Kingdom	0.5	0.3	0.2	0.1	0.1	0.0	0.0	0.0
Total	5.8	6.9	7.9	7.3	5.3	3.5	2.1	1.5

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

231 World wool production, by country and type

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt	2005-06 kt
Greasy								
Country or region								
Argentina	70	63	62	63	68	79	80	na
Australia	688	694	645	587	551	509	520	509
China a	277	293	298	308	338	374	379	na
Eastern Europe b	41	na	na	na	na	na	na	na
Central Asian Republics c	80	94	92	92	95	97	95	na
New Zealand	252	257	237	229	228	218	231	na
Russian Federation	48	39	39	41	43	46	46	na
South Africa d	54	48	47	46	44	46	46	na
United Kingdom	69	56	62	49	44	43	42	na
United States	26	56	62	49	44	43	42	na
Uruguay	60	57	57	49	41	37	40	na
Other producers	576	na	na	na	na	na	na	na
World	2 379	2 312	2 240	2 160	2 139	2 132	2 159	na
Clean								
Wool type								
Merino	596	583	570	551	521	498	na	na
Crossbred	325	303	306	284	269	308	na	na
Other	479	490	485	473	437	415	na	na
World	1 400	1 376	1 361	1 308	1 227	1 221	1 228	na

a Includes Manchuria, Sinkiang and Tibet. **b** Albania, Bosnia and Herzegovina, Bulgaria, Czech and Slovak Federal Republics, Hungary, Serbia, Macedonia, Poland, Romania, Croatia and Slovenia. **c** Includes Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan.

d Excluding Lesotho and Namibia. **na** Not available.

Sources: International Wool Textile Organisation, *Wool Statistics*, London; International Wool Textile Organisation, *International Wool Textile Overview*, London; Australian Wool Production Forecasting Committee; ABARE.

232 Volume of raw wool exports, by main producing countries ^a

	Australia kt	New Zealand kt	Argentina ^b kt	Uruguay ^c kt	South Africa kt	Total kt
1984-85	750	374	115	62	100	1 401
1985-86	847	337	115	87	84	1 470
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	242	77	82	64	1 237
1996-97	860	250	83	104	20	1 316
1997-98	799	242	64	61	24	1 190
1998-99	683	211	36	59	25	1 014
1999-00	800	169	36	72	21	1 098
2000-01	850	174	36	74	21	1 155
2001-02	683	180	33	72	21	989
2002-03	502	179	31	74	20	806
2003-04	474	176	41	72	29	792
2004-05	513	148	na	na	na	na
2005-06	501	159	na	na	na	na

^a Greasy equivalent. Includes raw, semiprocessed and wool on skins. For New Zealand and South Africa, does not include wool exported on skins. ^b October–September years to 1993-94; July–June years from 1994-95. ^c October–September years. ^{na} Not available.
 Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Commonwealth Secretariat, *Wool Quarterly*, London; Federación Lanera Argentina, *Informe Mensual Estadístico*, Buenos Aires; New Zealand Wool Board, *Statistical Handbook*, Wellington; International Wool Textile Organisation, *International Wool Textile Overview*, London; Secretario Uruguayo de la Lana based on Banco de la Republica Oriental del Uruguay data; Ministry of Agriculture, *Situation and Outlook for New Zealand Agriculture*, Wellington; South African Wool Board, *Statistical Review of the Wool Season*, South Africa.

233 Market prices for Australian wool, by category ^a

	1998-99 c/kg	1999-00 c/kg	2000-01 c/kg	2001-02 c/kg	2002-03 c/kg	2003-04 c/kg	2004-05 c/kg	2005-06 c/kg
19 micron	896.0	1 127.7	1 315.0	1 068.0	1 206.0	966.3	951.7	888.0
20 micron	683.0	754.6	784.0	850.0	1 150.9	913.4	839.8	776.0
21 micron	556.0	556.0	637.0	826.0	1 143.0	887.8	779.1	723.0
22 micron	517.0	474.6	597.0	824.0	1 133.9	865.1	742.5	702.0
23 micron	495.0	432.6	570.0	820.0	1 119.3	841.6	715.4	689.0
24 micron	486.0	423.9	554.0	815.0	1 096.2	811.4	673.8	669.0
25 micron	470.0	408.4	521.0	790.0	1 035.7	762.7	620.8	615.0
30 micron	400.0	351.4	444.0	585.0	595.6	430.9	451.7	426.0
Eastern market indicator	550.2	627.0	764.0	841.0	1 049.0	820.0	766.6	713.3
Western market indicator	475.0	506.6	646.8	764.5	1 026.6	793.2	727.2	667.8

^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 and energy commodities



2006

234 Summary of Australian statistics for bauxite and alumina

	Production		Alumina exports ^a		
	Bauxite kt	Alumina kt	Volume kt	Value \$m	Unit value ^b \$/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

^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		Volume b	Exports	
	Production	Consumption a		Value	Unit value c
	kt	kt	kt	\$m	\$/t
1960	12	39	na	na	na
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	1 894	362	1 534	3 626	2 364.2
2005	1 903	380	1 585	4 024	2 539.5

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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production									
Bauxite	kt	46 444	51 046	54 560	53 949	54 472	56 316	57 648	60 874
Alumina	kt	14 207	15 037	16 098	16 417	16 413	16 690	17 161	17 826
Aluminium	kt	1 686	1 742	1 788	1 809	1 855	1 877	1 890	1 912
Secondary metal ^a	kt	104	108	110	127	127	127	127	127
Exports									
Alumina ^b	kt	11 059	11 654	12 721	13 091	13 168	13 572	14 073	14 499
– value	\$m	2 910	3 471	4 507	4 114	3 660	3 781	4 383	5 262
Aluminium ^a	kt	1 365	1 364	1 471	1 490	1 551	1 546	1 512	1 615
– value	\$m	2 840	3 302	4 229	3 965	3 696	3 441	3 726	4 781
Imports									
Alumina	kt	0.7	0.9	0.8	0.9	1.6	1.1	1.3	1.4
– value	\$m	1.3	1.2	1.4	1.7	2.5	1.1	1.4	1.6
Aluminium ^a	kt	5.3	5.9	6.0	6.8	4.8	6.7	5.9	6.3
– value	\$m	14.1	18.2	20.5	20.5	14.3	16.2	16.6	19.9
Consumption ^c	kt	360.8	385.3	327.3	300.2	303.7	319.8	313.2	369.0
Export unit values									
Alumina	\$/t	263.13	297.80	354.29	314.25	277.97	278.60	311.47	362.90
Aluminium	\$/t	2 080.63	2 420.53	2 875.54	2 661.38	2 382.64	2 226.28	2 463.63	2 960.52

^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

	1997	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt	kt
China	11.2	4.8	17.7	18.6	20.0	46.4	72.0	75.2	59.5
Chinese Taipei	167.3	192.4	228.5	227.2	151.5	219.0	184.1	203.0	159.4
Hong Kong, China	68.5	90.4	71.8	102.1	61.6	74.3	90.0	108.8	85.5
Indonesia	50.8	31.2	52.7	51.1	47.6	51.3	56.3	57.1	88.1
Japan	520.7	562.4	528.4	610.3	610.8	577.5	569.9	551.9	581.0
Korea, Rep. of	193.9	182.3	256.3	230.5	210.2	234.8	217.2	188.5	222.4
Malaysia	27.2	39.0	41.9	24.4	52.1	53.4	61.8	75.2	81.3
Philippines	13.7	12.6	14.8	10.2	5.6	8.6	9.6	7.5	7.7
Singapore	7.1	4.9	9.0	4.1	5.3	5.4	6.0	13.5	16.0
Thailand	80.4	66.4	62.6	75.0	121.4	121.9	152.4	134.4	186.3
Other countries	15.3	123.8	97.0	48.0	203.1	133.9	108.6	118.6	97.4
Total	1 156.0	1 310.1	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7	1 584.7

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

238 World production, consumption, stocks and prices for aluminium

	Production					Primary consumption	Stocks	Price ^b
	Bauxite	Alumina ^a	Aluminium		Total			
	kt	kt	Primary	Secondary	kt	kt	kt	US\$/t
1960	27 620	na	na	755	na	na	na	511.5
1961	29 279	na	na	797	na	na	na	511.5
1962	31 220	na	3 618	948	4 566	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	1 254.8
1993	114 124	42 978	19 715	6 058	25 773	18 134	4 497	1 139.0
1994	112 230	41 953	19 112	6 447	25 559	19 715	3 733	1 477.8
1995	118 231	43 809	19 668	6 876	26 544	20 552	2 576	1 804.5
1996	123 965	40 841	20 846	6 914	27 760	20 684	3 135	1 505.9
1997	126 381	43 297	21 798	7 484	29 282	21 870	2 749	1 598.6
1998	123 034	45 043	22 654	7 594	30 248	21 889	2 837	1 357.2
1999	130 158	45 784	23 707	8 132	31 840	23 356	3 020	1 361.0
2000	138 915	48 119	24 418	8 197	32 615	24 059	2 623	1 549.0
2001	139 044	48 488	24 436	7 264	31 700	23 722	3 103	1 443.0
2002	147 312	49 785	26 076	7 649	33 725	25 371	3 444	1 352.0
2003	158 315	52 591	28 000	7 656	35 656	27 605	3 672	1 430.7
2004	167 595	54 872	29 922	7 560	37 481	29 962	3 033	1 716.0
2005	176 400	56 157	31 021	7 692	38 712	31 703	3 011	1 898.2

^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

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Africa									
Cameroon	91	82	92	95	81	67	77	86	91
Egypt	178	187	187	189	191	195	195	216	244
Ghana	152	56	114	156	162	132	16	0	13
Nigeria	3	26	16	0	0	0	0	0	0
South Africa	683	693	687	683	654	704	733	864	851
Americas									
Argentina	187	187	206	262	245	269	272	272	271
Brazil	1 189	1 208	1 250	1 271	1 132	1 318	1 381	1 457	1 498
Canada	2 327	2 374	2 390	2 374	2 583	2 709	2 792	2 592	2 894
Mexico	66	62	63	61	52	38	18	0	0
Surinam	23	27	7	0	0	0	0	0	0
United States	3 603	3 713	3 779	3 668	2 637	2 705	2 705	2 517	2 480
Venezuela	641	584	567	569	572	605	606	631	624
Asia									
China	2 035	2 336	2 599	2 794	3 371	4 321	5 547	6 689	7 806
India	547	545	621	649	624	671	799	861	942
Japan	17	16	11	7	7	6	7	7	6
Tajikistan	189	196	229	269	289	308	319	358	380
Europe									
France	399	424	455	441	461	463	443	451	442
Germany	572	612	634	644	652	653	661	668	648
Greece	133	146	160	163	162	164	165	167	165
Hungary	34	34	34	34	35	35	35	34	31
Iceland	123	173	222	226	243	264	266	271	272
Italy	188	187	187	190	188	190	191	195	193
Netherlands	232	264	287	302	293	284	283	326	341
Norway	919	996	1 020	1 026	1 068	1 096	1 192	1 322	1 377
Poland	52	52	52	52	55	59	53	54	54
Romania	162	174	174	181	182	187	196	219	244
Russian Federation	2 906	3 010	3 149	3 247	3 302	3 348	3 478	3 594	3 647
Slovakia	110	117	109	110	110	112	131	157	158
Slovenia	74	71	77	76	77	88	110	121	139
Spain	360	360	364	366	376	380	389	398	394
Sweden	98	96	99	100	102	101	101	101	103
Switzerland	27	32	34	36	36	40	44	45	45
Ukraine	101	107	112	104	106	113	114	113	114
United Kingdom	248	258	270	305	341	344	343	360	369
Yugoslavia	81	77	81	96	108	117	120	121	120
Middle East									
Bahrain	490	501	503	509	522	517	526	524	708
Iran	91	111	138	140	145	166	172	203	232
Turkey	62	62	62	62	62	63	63	62	59
United Arab Emirates	379	387	441	536	536	536	536	683	850
Oceania									
Australia	1 495	1 627	1 718	1 769	1 797	1 836	1 857	1 894	1 903
New Zealand	310	318	327	328	322	334	334	350	349
Total	21 798	22 654	23 707	24 418	24 436	26 076	28 001	29 922	32 021

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

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240 World primary aluminium consumption, by region and country

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Africa									
Cameroon	25	25	22	24	25	27	27	19	19
Egypt	98	92	83	82	97	91	101	98	98
Ghana	16	16	16	16	16	16	16	16	16
South Africa	124	143	125	186	198	180	180	222	240
Other Africa	19	27	22	31	30	32	32	41	37
Total	282	302	268	339	366	347	356	397	410
Americas									
Argentina	95	108	83	81	54	51	81	116	113
Brazil	479	521	463	514	553	578	589	651	759
Canada	644	721	777	800	743	747	736	761	803
Mexico	83	92	88	88	113	113	113	130	158
United States	5 390	5 814	6 158	6 161	5 230	5 509	5 667	5 800	6 114
Venezuela	193	206	155	183	165	173	181	208	179
Other Americas	94	74	65	86	85	99	100	118	129
Total	6 978	7 536	7 789	7 912	6 942	7 270	7 467	7 783	8 256
Asia									
China a	2 260	2 425	2 926	3 499	3 492	4 115	5 178	6 043	7 119
Chinese Taipei	374	301	464	502	321	407	431	497	412
Hong Kong, China	42	42	48	50	50	42	28	25	30
India	553	567	570	602	589	604	798	861	958
Indonesia	203	75	139	146	163	127	211	249	268
Japan	2 434	2 082	2 112	2 225	2 014	2 010	2 235	2 319	2 276
Korea, Rep. of	666	506	814	823	850	921	982	1 118	1 201
Malaysia	196	104	147	150	153	149	126	140	150
Philippines	34	24	34	33	25	30	26	29	28
Singapore	19	43	4	15	48	48	56	63	60
Thailand	233	129	156	195	227	250	323	378	374
Other Asia	689	727	765	836	870	958	1 054	1 246	1 336
Total	7 704	7 025	8 177	9 075	8 802	9 661	11 448	12 967	14 212
Europe									
Austria	162	160	143	168	201	208	241	234	218
Belgium	345	370	350	341	327	333	322	402	442
Croatia	22	24	30	29	38	41	28	56	71
Czech Republic	63	79	66	78	88	105	103	114	134
Denmark	36	39	39	41	44	56	60	66	63
Finland	33	36	37	39	37	32	29	33	37
France	724	726	771	782	746	762	754	749	719
Germany	1 558	1 519	1 439	1 491	1 580	1 690	1 916	1 795	1 759
Greece	204	213	213	231	218	220	243	266	281
Hungary	183	164	171	210	223	240	244	226	226
Italy	654	675	735	780	756	851	956	987	977
Netherlands	155	155	155	155	155	155	153	146	146
Norway	197	160	231	253	233	246	246	246	246
Poland	102	108	133	150	149	133	152	160	160
Portugal	69	68	82	78	67	78	72	90	88
Romania	63	80	98	128	113	112	163	163	213
Russian Federation	469	489	563	748	786	990	803	1 020	1 020
Slovakia	25	22	25	36	39	28	24	20	25
Slovenia	52	75	75	81	116	76	87	119	115
Spain	430	436	494	526	508	533	596	603	624

Continued

240 World primary aluminium consumption, by region and country *continued*

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Europe (<i>continued</i>)									
Sweden	142	177	133	147	119	127	126	124	113
Switzerland	144	166	157	165	161	152	168	169	162
Ukraine	50	50	50	50	50	50	30	33	37
United Kingdom	583	579	497	576	433	428	302	439	353
Yugoslavia	6	7	8	12	17	23	38	45	62
Total	6 518	6 625	6 736	7 341	7 249	7 721	7 925	8 379	8 373
Middle East									
Bahrain	191	200	226	239	261	248	255	353	355
Iran	104	103	123	117	117	126	126	161	154
Saudi Arabia	45	50	55	60	65	70	77	77	80
Turkey	161	181	169	211	176	231	308	351	390
Total	501	534	574	627	618	665	766	942	979
Oceania									
Australia	352	367	344	346	317	299	337	362	380
New Zealand	37	34	43	46	46	74	73	75	71
Total	389	401	387	392	363	373	410	437	451
Total	21 870	21 889	23 356	25 059	23 722	25 371	27 605	29 962	31 703

^a Excludes Hong Kong.

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

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241 Volume of world aluminium trade, by country ^a

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Exports									
Argentina	113.5	87.7	123.4	187.0	182.5	203.4	199.9	163.1	168.5
Australia	1 156.0	1 310.1	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7	1 584.7
Austria	67.3	87.3	88.0	91.8	102.2	108.9	103.7	136.0	132.8
Bahrain	298.8	300.4	276.5	269.8	261.1	268.8	270.9	na	na
Belgium	75.2	111.1	66.7	61.6	184.4	287.3	198.7	308.7	306.7
Brazil	716.2	692.4	788.6	760.0	587.9	749.4	798.8	818.4	753.1
Cameroon	65.6	111.7	72.0	69.8	56.8	39.7	51.2	73.3	na
Canada	1 884.6	1 856.4	1 862.6	1 837.3	2 046.1	2 133.3	2 233.2	1 996.9	2 262.3
Chinese Taipei	137.8	148.9	94.4	103.1	96.1	113.6	121.1	125.8	111.3
Denmark	29.6	28.8	25.7	23.3	26.1	23.4	17.7	14.1	23.6
Egypt	89.4	86.1	109.7	114.4	95.1	108.7	99.2	119.8	144.6
Finland	33.6	37.1	39.6	38.9	33.7	23.5	18.6	17.3	14.1
France	166.6	139.8	153.3	157.4	151.0	156.7	139.0	148.1	172.8
Germany	229.6	236.7	300.3	374.8	366.7	387.6	389.3	413.4	391.6
Ghana	119.0	17.0	39.4	114.3	68.7	na	na	na	na
Greece	46.7	58.5	60.8	94.5	15.8	62.9	67.6	70.4	76.0
Hong Kong, China	252.7	249.6	215.0	193.0	134.4	145.9	183.4	203.3	118.1
Hungary	19.2	21.7	12.7	12.2	10.9	10.6	16.2	10.0	22.6
Iceland	119.8	162.1	221.4	209.7	258.0	282.5	286.0	278.0	283.6
India	80.4	22.9	100.3	91.4	101.5	135.7	71.4	76.2	108.3
Indonesia	166.2	148.1	79.9	172.2	149.6	142.7	119.9	167.7	166.1
Ireland	na	na	na	na	na	na	na	na	na
Italy	37.3	35.7	29.6	33.8	31.5	42.0	34.5	47.8	66.3
Japan	10.3	7.1	10.5	10.0	12.6	12.4	18.2	36.3	34.4
Korea, Rep. of	97.3	70.4	31.8	11.8	8.0	24.3	49.9	56.1	48.6
Mexico	5.7	6.4	7.1	10.3	7.5	5.5	4.7	13.6	14.7
Netherlands	472.6	468.7	480.5	450.5	470.0	581.7	635.6	609.6	482.3
New Zealand	283.2	294.0	287.2	296.1	293.5	298.5	289.7	316.1	319.5
Norway	915.3	989.1	988.0	1 041.8	1 187.6	1 127.8	1 362.5	1 485.0	1 513.2
Russian Federation	2 708.8	2 790.4	3 115.7	3 177.2	3 074.4	2 782.0	3 107.9	3 700.2	2 740.3
Singapore	92.0	58.4	77.8	75.0	88.8	127.5	127.9	101.6	103.9
South Africa	566.8	557.0	630.6	504.4	461.0	584.6	625.8	646.4	671.2
Spain	130.7	107.7	80.4	82.1	92.2	70.9	88.3	103.2	115.0
Surinam	27.5	26.8	6.8	na	na	na	na	na	na
Sweden	70.1	47.6	64.8	53.3	66.2	81.2	76.0	127.8	97.7
Switzerland	8.9	8.4	11.6	15.7	5.5	7.1	0.8	8.2	14.5
Tajikistan	182.9	186.6	224.3	288.0	287.0	304.0	316.7	342.6	374.9
United Arab Emirates	378.5	372.0	441.2	515.9	452.8	377.3	341.0	327.2	301.0
United Kingdom	372.9	225.8	233.6	347.7	263.3	250.4	271.2	335.9	379.1
United States	374.0	373.4	425.0	451.4	339.3	305.2	241.6	344.1	379.0
Venezuela	414.5	378.7	429.4	388.3	398.0	437.4	392.1	389.7	403.3
Yugoslavia	61.0	61.4	69.5	92.5	95.8	116.5	35.0	1.7	1.3
Total	13 688.6	13 792.0	14 794.2	15 399.7	15 176.3	15 911.4	16 852.1	18 091.1	16 975.2

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Volume of world aluminium trade, by country ^a *continued*

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Imports									
Argentina	na	na	na	na	na	na	na	na	na
Australia	4.2	5.9	5.6	6.0	7.6	4.4	6.1	6.9	5.1
Austria	243.1	253.2	223.7	251.5	293.0	307.3	326.3	336.0	297.1
Belgium	388.3	496.7	413.2	431.9	599.8	669.7	599.6	749.6	763.0
Brazil	5.7	5.8	2.1	2.3	8.7	8.9	6.8	12.0	18.6
Canada	153.9	201.9	246.5	276.3	223.0	196.1	137.9	165.5	163.1
China	288.9	307.0	534.0	914.1	529.6	581.8	880.8	1 033.3	637.0
Chinese Taipei	512.1	449.6	558.5	604.7	417.4	520.8	552.1	622.5	523.5
Denmark	41.0	45.6	43.6	45.4	48.7	61.5	65.4	75.2	70.6
Finland	33.5	37.8	43.2	52.0	50.5	37.5	36.7	41.3	44.6
France	419.2	403.3	464.7	527.8	506.9	474.3	490.5	513.8	517.2
Germany	1 400.2	1 471.9	1 333.2	1 586.2	1 602.0	1 666.6	1 895.6	1 798.9	1 770.5
Greece	117.9	125.8	113.2	135.6	122.4	118.9	144.3	167.6	190.2
Hong Kong, China	479.5	401.3	262.4	242.8	162.9	188.1	211.2	228.5	148.8
Hungary	170.2	157.0	154.1	193.0	203.3	209.3	227.9	366.6	163.7
India	86.4	131.1	49.4	44.7	66.6	68.3	70.6	76.4	123.8
Ireland	11.1	13.5	16.4	12.2	11.5	6.8	6.5	6.6	4.1
Italy	575.1	608.0	652.8	704.8	670.2	781.2	871.5	903.3	890.1
Japan	3 027.5	2 551.8	2 657.4	2 905.2	2 611.6	2 575.1	2 941.3	3 021.4	2 976.7
Korea, Rep. of	771.3	584.1	880.4	889.7	880.6	973.3	1 080.2	1 197.1	1 230.6
Mexico	132.1	180.1	198.6	231.7	229.4	292.1	325.3	403.9	406.8
Netherlands	528.4	522.9	584.1	615.6	520.6	526.0	583.5	594.3	656.3
New Zealand	10.0	10.8	12.8	9.7	5.7	10.7	17.3	22.1	19.1
Norway	196.3	147.9	186.0	252.5	224.1	282.2	301.6	355.5	370.8
Portugal	79.8	109.2	159.7	194.9	175.0	172.9	193.2	211.2	238.6
Singapore	102.6	82.1	76.7	81.0	229.9	271.7	85.0	188.7	234.2
South Africa	3.8	7.3	6.0	8.2	5.4	4.8	7.7	3.9	18.1
Spain	188.3	177.0	220.7	231.0	216.1	222.7	283.3	326.5	333.9
Sweden	125.3	138.5	104.6	109.1	97.2	120.2	118.9	150.2	135.1
Switzerland	143.6	141.2	123.6	136.3	130.5	119.4	125.1	132.5	132.0
Thailand	238.1	196.3	159.6	356.1	232.2	259.3	330.3	390.7	386.9
Turkey	138.9	143.2	132.8	169.6	125.5	185.5	274.0	327.0	382.9
United Kingdom	436.9	496.0	444.0	277.1	346.9	371.1	294.7	234.2	200.8
United States	2 097.2	2 484.6	2 835.9	2 687.6	2 677.1	2 918.2	2 982.7	3 297.7	3 690.7
Yugoslavia	4.1	3.9	1.7	3.0	4.2	11.0	20.1	24.5	39.7
Total	13 466.2	13 382.5	14 308.7	15 720.8	14 686.3	15 642.8	17 008.3	18 551.3	18 318.1

^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.

clays

242 Australian exports of clays, by destination ^a

	Japan	New Zealand	United Kingdom	Other	Total	
					Volume	Value
	†	†	†	†	†	\$'000
1960	na	976	na	na	1 024	42
1961	na	759	na	na	840	36
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	1 194	2 939	796	14 234	19 163	4 834
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

^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.L., *Australian Mineral Industry: Production and Trade, 1842-1964*, Bureau of Mineral Resources, Canberra; ABARE.

243 Australian imports of clays

	Bentonite a		Kaolin b		Refractory clays c		Other clays d	
	t	\$'000	t	\$'000	t	\$'000	t	\$'000
1960	7 387	255	9 902	214	1 065	70	6 537	213
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	8 998	2 363	7 507	3 997	3 051	642	14 739	3 884
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

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 consumption	Exports		Closing stocks b
	Raw Mt	Net a Mt		Volume Mt	Unit value \$/t	
1960-61	23.67	22.15	20.05	1.93	8.01	na
1961-62	25.37	23.48	20.14	3.51	7.77	na
1962-63	25.25	23.40	20.26	2.71	8.21	na
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	304.86	71.29	231.31	73.90	23.66
2005-06	397.74	304.94	71.40	231.28	104.68	25.92

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. 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	160.75	67.72	226.29	6.30	3.80	0.60

^a Brown coal. Between 1960-61 and 1968-69, Victoria produced small quantities of black coal which are not included in this table.
 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	Iron and	Cement	Other	Total	Electricity
	generation	steel ^a	Industry	consumers		generation
	Mt	Mt	Mt	Mt	Mt	Mt
1982-83	26.91	6.46	1.02	2.89	37.29	33.42
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

^a As received basis.

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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Metallurgical coal									
High quality									
Volume	Mt	56.00	62.78	61.96	65.46	66.45	67.55	80.73	77.48
Value	\$m	3 868	3 587	4 241	5 353	5 122	4 340	7 692	12 203
Unit value	\$/t	69.07	57.14	68.44	81.77	77.08	64.26	95.28	157.49
Excluding high quality									
Volume	Mt	29.26	34.03	43.56	40.37	41.34	44.19	44.19	42.98
Value	\$m	1 604	1 596	2 356	2 685	2 325	2 169	3 067	4 800
Unit value	\$/t	54.82	46.92	54.07	66.51	56.25	49.10	69.40	111.66
Total									
Volume	Mt	85.26	96.81	105.53	105.83	107.79	111.73	124.92	120.47
Value	\$m	5 472	5 184	6 597	8 038	7 448	6 510	10 758	17 003
Unit value	\$/t	64.18	53.54	62.51	75.95	69.09	58.26	86.12	141.14
Thermal coal									
Volume	Mt	84.15	78.97	87.98	92.04	99.95	106.69	106.40	110.81
Value	\$m	3 767	3 114	4 204	5 294	4 448	4 372	6 336	7 206
Unit value	\$/t	44.76	39.43	47.78	57.51	44.50	40.98	59.55	65.03

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

	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt
Asia								
ASEAN a	2.81	3.86	2.24	2.48	2.62	2.61	3.79	4.12
China b	1.65	0.88	0.60	2.95	3.99	2.45	1.75	4.00
Chinese Taipei	8.57	9.29	8.65	10.24	10.82	9.89	14.33	13.21
Hong Kong, China	2.06	0.73	0.42	0.26	0.73	1.20	0.37	0.08
Japan	39.28	43.01	49.99	49.62	52.44	58.78	57.28	59.33
Korea, Rep. of	13.77	11.38	12.80	13.40	14.20	16.22	17.95	20.24
Other Asia	2.38	3.31	4.92	3.45	2.79	3.51	2.42	1.59
Total	70.54	72.47	79.63	82.40	87.59	94.66	97.89	102.55
Europe								
European Union c	10.72	5.14	6.54	6.30	7.49	7.86	3.48	2.32
Denmark	0.48	0.32	0.16	0.19	0.41	0.79	0.00	0.28
Germany	1.23	0.00	0.00	0.17	0.00	0.26	0.12	0.00
Netherlands	2.82	1.88	1.39	1.51	1.82	1.59	0.73	0.30
United Kingdom	1.86	1.22	1.75	0.97	1.28	1.88	0.99	0.43
Other Europe	2.98	1.44	1.86	3.38	4.98	4.29	5.19	6.01
Total all countries	84.15	78.97	87.98	92.04	99.95	106.69	106.40	110.81

a Includes Brunei Darussalam, 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

	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt
Asia								
China a	1.26	1.42	0.43	0.04	0.68	3.07	3.73	2.22
Chinese Taipei	2.79	2.93	3.90	4.01	3.82	3.43	3.51	3.31
India	8.03	8.57	9.09	9.67	11.08	10.09	13.41	13.63
Japan	14.94	18.54	16.76	17.37	18.22	17.78	22.87	23.87
Korea, Rep. of	5.23	5.10	6.43	6.63	7.44	6.80	8.01	6.58
Pakistan	0.48	0.41	0.42	0.49	0.44	0.43	0.59	0.05
Other Asia	2.47	1.44	1.55	2.11	1.80	1.20	1.18	1.34
Total Asia	35.22	38.40	38.57	40.33	43.50	42.82	53.32	51.00
Europe								
European Union b	15.50	17.60	17.31	18.43	16.60	17.77	19.49	19.32
France	2.63	3.12	3.22	2.94	2.54	2.32	2.47	2.20
Germany	1.38	1.74	1.40	1.24	1.46	1.37	1.58	1.78
Italy	2.26	2.23	2.24	2.34	1.63	1.93	2.53	2.26
United Kingdom	3.93	4.85	4.31	3.97	3.72	3.67	4.01	3.52
Other Europe	6.11	7.62	7.28	8.19	7.76	8.43	9.52	8.72
Total all countries	56.00	62.78	61.96	65.46	66.45	67.55	80.73	77.48

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

	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt	2005-06 Mt
Asia								
India	0.67	1.16	1.64	2.27	3.02	3.49	4.03	2.77
Japan	19.09	21.45	26.72	23.02	23.09	23.60	22.09	20.35
Europe								
European Union ^a	0.86	2.43	4.76	4.24	3.42	4.04	4.76	4.73
Americas								
Brazil	0.96	1.29	2.20	1.62	2.30	0.77	0.00	0.00
Total all countries	29.26	34.03	43.56	40.37	41.34	44.19	44.19	42.98

^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

	1998 Mt	1999 Mt	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 ^s Mt
Metallurgical coal								
Australia ^a	84.1	85.3	96.8	105.5	105.8	107.8	111.7	124.9
Canada	28.4	28.9	28.4	26.9	23.0	23.7	23.8	27.8
China	4.9	5.2	6.5	11.4	13.3	13.1	5.8	5.3
Poland	6.5	6.6	5.3	3.8	3.5	2.7	3.0	3.2
Russian Federation	6.4	6.4	7.3	14.4	9.2	9.5	11.9	12.1
United States	42.7	29.1	29.8	23.1	19.5	20.0	24.3	26.0
World ^a	178.2	175.2	184.5	193.3	181.3	183.9	187.8	204.0
Total seaborne	171.7	168.8	177.8	183.6	174.4	177.1	179.6	196.0
Thermal coal								
Australia	83.6	78.7	85.5	86.7	98.5	103.1	106.9	107.6
Canada	4.8	5.0	4.1	2.7	2.1	1.3	1.9	1.5
China ^a	27.4	32.2	48.6	78.7	70.6	80.9	80.9	65.7
Colombia	30.1	29.9	35.6	39.1	35.5	45.5	50.9	54.6
Indonesia	47.2	55.3	57.4	65.3	74.2	84.9	96.2	123.3
Poland	21.5	17.5	18.0	19.2	19.1	17.4	16.6	17.6
Russian Federation	17.6	21.3	29.4	27.1	34.3	45.2	56.7	63.6
South Africa	61.3	66.2	69.9	68.2	68.5	70.9	67.0	71.9
United States	29.4	23.9	23.2	21.0	16.3	18.9	19.0	19.1
World	365.1	374.5	431.3	478.4	492.7	534.8	573.4	565.5
Total seaborne	292.8	302.8	356.9	385.1	407.7	448.9	473.6	492.7

^a Includes pulverised coal injection – coal used for metallurgical purposes. ^s ABARE estimate.

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; International Energy Agency, *Coal Information*, OECD, Paris; Joint Coal Board and Queensland Department of Mines and Energy, *Australian Black Coal Statistics*, Sydney; ABARE.

252 Volume of Japanese imports of coal, by source

	Total imports Mt	Australia %	Canada %	China %	Indonesia %	Russian Federation %	South Africa %	United States %	Other %
Thermal coal									
1997	54.19	64.2	4.0	13.5	5.1	3.4	5.5	4.3	0.0
1998	55.08	66.0	3.5	14.4	5.0	2.4	4.0	4.8	0.0
1999	60.32	64.9	2.2	14.5	6.1	4.1	3.7	4.5	0.0
2000	65.29	64.0	2.1	17.0	5.4	4.8	2.5	4.2	0.0
2001	71.14	63.3	0.8	21.1	6.6	4.6	1.5	2.1	0.0
2002	72.83	62.2	1.2	21.5	7.4	5.2	1.2	1.2	0.1
2003	79.60	65.1	1.2	20.8	7.7	4.9	0.2	0.0	0.1
2004	91.52	65.0	1.0	19.3	9.0	5.4	0.0	0.1	0.2
2005 s	90.98	65.3	0.8	17.9	8.6	7.2	0.2	0.0	0.0
Metallurgical coal									
1997	75.91	48.3	21.8	4.8	10.6	3.6	2.7	7.0	1.2
1998	73.42	47.8	20.9	4.8	13.0	3.4	2.6	6.4	1.2
1999	74.10	54.9	19.2	4.2	13.6	3.1	0.8	2.8	1.5
2000	76.30	57.9	15.7	5.6	13.8	3.1	0.4	1.9	1.7
2001	79.52	57.2	13.8	9.3	14.5	3.0	0.1	1.0	1.1
2002	80.81	55.7	10.4	12.7	16.4	3.2	0.0	0.4	1.2
2003	82.43	51.9	9.9	13.9	18.7	4.4	0.0	0.1	1.1
2004	82.62	51.9	6.4	10.6	20.1	5.0	0.0	4.7	1.3
2005 s	83.94	52.3	7.9	6.8	25.8	3.9	0.0	2.5	0.9

s ABARE estimate.

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

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

	Total imports Mt	Australia %	Canada %	Columbia %	Poland %	South Africa %	United States %	Other %
Thermal coal								
1997	99.73	5.7	0.7	15.2	15.2	26.7	12.9	23.6
1998	96.46	6.6	0.2	15.5	14.9	29.0	8.0	25.8
1999	99.94	8.6	0.2	15.6	14.7	31.6	5.7	23.6
2000	110.21	6.7	0.2	16.6	14.7	33.0	5.5	23.2
2001	126.66	6.4	0.2	14.3	12.8	31.9	6.9	27.6
2002	120.27	6.6	0.1	15.0	13.1	36.1	3.1	26.0
2003	134.83	6.9	0.0	15.6	10.8	36.9	2.1	27.8
2004	151.94	5.5	0.0	13.8	8.4	32.5	2.5	37.3
2005	132.46	4.2	0.2	16.2	8.4	36.7	2.4	31.9
Metallurgical coal								
1997	39.97	30.4	12.0	0.5	6.4	4.7	42.5	3.6
1998	42.99	29.4	10.5	0.1	6.8	7.0	42.7	3.5
1999	39.81	38.3	13.2	0.6	4.9	2.7	36.0	4.2
2000	38.79	44.5	13.8	0.4	3.2	2.0	33.4	2.8
2001	36.72	47.4	14.5	0.2	2.6	4.6	27.3	3.3
2002	33.10	48.3	14.4	0.0	4.3	2.9	25.8	4.4
2003	34.96	45.4	12.9	0.5	2.2	7.0	26.4	5.6
2004	43.75	41.2	12.9	1.1	1.6	6.3	24.1	12.7
2005	41.84	44.2	14.1	0.7	1.0	4.4	25.2	10.3

^a Imports from non-EU countries only. Regarded as fifteen countries. ^{na} Not available.

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

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

	1997 US\$/t	1998 US\$/t	1999 US\$/t	2000 US\$/t	2001 US\$/t	2002 US\$/t	2003 US\$/t	2004 US\$/t	2005 US\$/t
Japan									
Thermal coal									
Australia	45.59	40.80	36.12	34.59	38.32	37.38	35.13	50.20	61.90
Canada	42.01	38.25	33.50	34.72	36.94	37.34	33.82	52.60	63.79
China	44.73	39.96	34.89	33.69	36.95	36.25	35.28	55.06	65.65
Indonesia	41.63	36.58	32.40	31.85	35.17	34.52	32.72	46.98	59.65
South Africa	46.58	41.50	37.34	35.82	38.05	40.30	35.21	na	80.64
United States	49.86	47.52	45.37	45.49	45.99	48.63	na	na	na
All sources ^b	45.26	40.68	35.87	34.59	37.95	36.95	34.93	51.48	62.73
Metallurgical coal									
Australia	52.73	49.47	41.83	39.01	40.96	43.32	43.56	56.85	96.44
Canada	64.84	59.73	51.05	45.46	47.30	50.50	51.64	62.04	106.05
China	49.98	46.78	40.01	37.12	39.35	38.97	39.09	72.57	100.45
Indonesia	45.51	39.73	34.07	32.36	35.13	34.12	31.94	40.78	53.51
South Africa	49.64	47.06	39.74	39.99	47.09	38.69	39.20	61.31	71.77
United States	61.24	59.53	55.79	52.69	47.81	52.07	42.93	163.61	159.01
All sources ^b	55.19	50.98	42.95	39.46	41.13	42.14	41.73	61.40	88.80
European Union ^c									
Thermal coal									
Australia	46.38	40.03	36.68	39.04	44.13	43.28	46.83	69.05	106.40
Indonesia	33.61	30.79	29.35	30.05	36.08	36.48	39.29	52.56	61.27
Poland	42.62	39.61	35.03	35.30	44.41	40.75	43.26	68.95	78.34
South Africa	40.33	36.30	31.78	33.83	42.32	36.65	39.10	58.00	67.64
United States	48.47	46.99	40.67	41.07	46.52	43.48	47.37	61.50	86.75
Total (all sources) ^d	43.13	39.40	34.12	34.93	42.79	38.57	41.88	62.06	69.66
Metallurgical coal									
Australia	57.97	55.00	47.33	45.45	51.24	55.52	58.03	73.63	114.89
Poland	61.02	52.52	47.48	50.43	51.58	50.15	62.24	108.71	138.92
South Africa	43.31	35.83	36.21	39.09	42.10	38.69	39.20	61.31	71.77
United States	60.08	58.53	54.14	52.91	58.54	61.48	64.18	84.75	110.91
Total (all sources) ^d	58.08	54.55	49.02	47.85	53.50	56.50	59.09	78.42	109.17

^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.

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Selected Australian–Japanese contract prices for metallurgical and thermal coal ^a

	1999	2000	2001	2002	2003	2004	2005	2006
Metallurgical coal								
Hard ^b								
US\$/t	41.90	39.75	42.75	48.10	46.20	57.00	125.00	115.00
A\$/t	64.98	68.19	82.48	88.45	70.98	77.53	164.23	154.03
Real A\$/t	81.56	81.92	94.93	98.83	77.18	82.36	169.93	154.03
Other ^c								
US\$/t	32.20	30.60	36.00	33.05	31.05	41.00	80.00	56.00
A\$/t	49.94	52.50	69.46	60.78	47.71	58.49	105.10	75.00
Real A\$/t	62.68	63.07	79.94	67.91	51.87	62.13	108.76	75.00
Thermal coal ^d								
US\$/t	29.95	28.75	34.50	28.75	26.75	45.00	52.50	52.50
A\$/t	46.43	49.40	66.60	52.84	41.09	61.22	69.00	70.28
Real A\$/t	58.26	59.37	76.64	59.05	44.66	65.06	71.42	70.28

^a Japanese fiscal year beginning 1 April. Prices are fob; real prices are in 2006 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

	1997 US\$/t	1998 US\$/t	1999 US\$/t	2000 US\$/t	2001 US\$/t	2002 US\$/t	2003 US\$/t	2004 US\$/t	2005 US\$/t
Australia									
Thermal coal									
France	35.12	25.88	22.37	19.14	31.38	22.62	24.05	29.77	45.88
Italy	na	24.50	22.27	21.30	31.07	25.26	24.77	31.26	na
Japan	35.40	31.50	27.02	24.72	29.69	29.20	26.00	38.45	49.42
Netherlands	29.50	23.89	20.49	20.65	26.45	24.65	26.69	42.90	60.71
All destinations ^b	34.35	30.10	26.49	24.27	28.71	28.01	25.41	37.65	48.86
Metallurgical coal									
France	46.71	42.37	36.49	33.37	37.32	41.41	39.06	46.79	96.94
Italy	48.41	44.48	40.38	34.97	42.68	45.90	45.51	51.40	102.14
Japan	45.52	42.47	34.60	31.64	34.46	36.79	36.18	45.51	83.74
Netherlands	47.94	44.03	37.73	34.10	41.09	46.17	45.45	52.07	98.18
All destinations ^b	47.37	43.97	35.99	32.85	36.93	40.16	39.75	48.84	88.94
United States									
Thermal coal									
France	38.40	39.16	42.14	28.96	30.50	na	na	na	40.17
Italy	43.31	40.12	51.13	30.67	42.50	42.91	46.67	46.90	na
Japan	38.55	37.00	35.40	34.90	37.70	40.41	na	na	na
Netherlands	35.86	32.78	28.44	28.90	35.71	na	na	na	na
All destinations ^b	34.84	32.24	32.02	31.84	34.51	37.70	37.00	53.93	67.09
Metallurgical coal									
France	52.03	50.64	47.10	44.19	48.54	54.96	55.56	71.81	99.69
Italy	53.85	52.63	51.02	49.45	53.11	56.41	54.49	66.99	86.21
Japan	45.94	45.98	44.46	41.99	na	na	56.01	98.14	100.61
Netherlands	51.92	51.25	47.90	45.46	48.90	na	na	na	na
All destinations ^b	49.99	48.55	46.19	42.98	45.88	50.06	49.11	70.14	89.91

^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

	1998 Mt	1999 Mt	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 Mt
Australia	221.1	223.7	239.4	264.2	273.2	274.9	285.9	300.7
Brazil	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.4
Canada	38.1	39.2	33.8	34.1	29.7	26.6	29.3	28.6
China ^b	1 255.5	1 187.6	1 178.8	1 218.6	1 343.6	1 587.7	1 871.9	2 225.6
Colombia	33.7	32.7	38.1	43.8	40.1	50.5	54.2	61.1
Former Soviet Union ^c	140.5	152.4	152.5	164.8	163.5	177.4	189.8	221.7
Germany	45.3	43.8	37.4	30.7	29.2	28.8	29.2	28.0
India	285.2	295.1	304.9	319.7	332.9	353.5	377.4	397.7
Indonesia	62.0	73.8	76.6	92.5	103.4	115.3	132.4	139.7
Poland	115.1	109.3	102.2	103.3	102.7	101.7	100.5	97.1
South Africa	223.0	223.5	224.2	223.6	220.2	238.8	242.8	239.9
United Kingdom	40.0	36.2	30.6	31.5	29.5	27.8	24.5	20.0
United States	936.0	916.9	894.0	948.8	917.0	892.9	932.2	949.9
World total ^d	3 635.0	3 561.4	3 557.5	3 731.2	3 833.5	4 133.1	4 532.6	4 969.6

^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; Joint Coal Board and the Queensland Department of Mines and Energy, *Australian Black Coal Statistics*, Sydney.

258 Summary of Australian statistics for dimension stone

	Production ^a	Exports		Imports
	Volume kt	Volume t	Value \$'000	Value \$'000
1960	323	na	15	363
1961	541	na	9	405
1962	385	na	8	439
1963	639	na	24	481
1964	599	na	7	613
1965	474	na	12	562
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 ^b	1 209	57	569
1972	318 ^b	731	42	708
1973	144 ^b	1 621	105	395
1974	143 ^b	2 347	155	440
1975	255 ^b	379	na	606
1976	112	112	na	489
1977	84	757	180	832
1978	115	387	133	2 371
1979	122 ^c	1 086	83	2 224
1980	116 ^c	2 762	220	4 472
1981	125 ^c	205	46	5 450
1982	129 ^d	84	33	7 768
1983	97 ^d	1 224	367	6 619
1984	102 ^d	4 244	1 861	9 980
1985	190 ^e	2 537	782	14 025
1986	106 ^e	5 226	1 893	12 097
1987	99 ^f	2 974	1 119	15 231
1988	149 ^g	1 659	776	16 295
1988-89	92 ^f	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	5 074	4 223	5 377
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	258	28 099	9 263	9 321
2005-06	na	28 823	9 096	9 872

^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 kt	Victoria kt	Queensland kt	Western Australia kt	South Australia kt	Tasmania kt	Australia kt
1960	160	4	5	114	39	na	323
1961	360	7	2	132	40	na	541
1962	201	9	3	130	37	1	385
1963	377	10	2	214	25	2	639
1964	387	10	3	151	32	6	599
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
2002-03	32	15	43	2	42	3	143
2003-04	29	16	49	3	40	5	147
2004-05	27	18	118	5	79	9	258

^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. ^{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	Value
	t	t	t	t	\$'000
1960	na	na	na	na	15
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	190	27	4 857	5 074	4 223
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

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 '000 m ²	Value \$'000	Volume t	Value \$'000	Volume t	Value \$'000	Volume t	Value \$'000	Value \$'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	177	1 050	1 000	1 014	5 399	3 182	121	131	5 377
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

^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 kt	Victoria kt	Queensland kt	South Australia kt	Tasmania kt	Northern Territory kt	Australia kt
1960	3 023	1 132	na	1 843	21	na	6 030
1961	2 984	2 568	na	1 893	35	na	7 547
1962	3 005	2 842	na	1 540	99	na	7 656
1963	3 729	3 048	na	2 026	113	na	9 196
1964	5 209	3 352	na	1 884	163	na	10 929
1965	5 045	3 989	na	1 823	280	na	11 628
1966	4 246	4 356	na	1 611	232	na	10 838
1967	4 598	4 278	na	1 784	234	na	11 328
1968	6 718	5 075	na	2 110	281	na	14 637
1969	6 686	6 680	1 022	2 930	265	na	18 199
1970	6 174	5 242	2 282	2 627	271	na	16 973
1971	6 353	5 747	3 031	2 707	185	371	18 394 b
1972	7 603	5 619	3 619	2 387	185	471 c	19 884 b
1973	8 798	6 660	4 182	2 525	179	581 c	22 925 b
1974	8 797	7 788	4 733	2 476	252	474 c	24 520 b
1975	8 415	7 541	4 933	2 567	190	766 c	24 412 b
1976	7 793	7 766	5 172	2 575	391	568 c	24 264 b
1977	7 676	9 040	4 137	3 919	439	389 c	25 600 b
1978	7 077	8 951	3 768	2 808	349	310 c	23 264 b
1979	8 263	8 357	4 410	2 526	448	285 c	24 290 b
1980	9 553	8 400	4 800	2 287	361	293 c	25 694 b
1981	10 738	7 929	5 787	2 753	334	460 c	28 002 b
1982	10 767	7 449	6 337	2 564	332	1 268 c	28 718 b
1983	8 403	6 884	5 583	2 094	388	192	23 543 d
1984	8 401	6 951	5 876	2 542	450	455	24 675 d
1985	8 989	7 437	6 386	2 852	576	399	26 640 d
1986	10 239	6 653	5 949	4 145	510	396	27 892 d
1987	9 501	8 476	6 179	2 961	572	377	28 067 d
1988	10 176	7 339	7 596	3 435	713	75	29 334 d
1988-89	11 188	7 339	6 970	3 195	518	154	30 121 e
1989-90	11 605	6 633	7 561	3 646	498	146	33 856 e
1990-91	10 098	5 693	na	2 694	426	na	18 912 f
1991-92	10 035	na	na	2 745	448	na	na
1992-93	10 647	9 984	5 733	3 129	495	186	32 970
1993-94	na	na	na	3 185	na	na	na
1994-95	na	na	na	na	na	na	na
1995-96	8 902	na	na	2 225	na	na	na
1996-97	7 109	na	na	2 286	na	578	na
1997-98	9 428	na	na	2 389	na	na	na
1998-99	10 378	na	na	2 892	na	na	na
1999-00	10 498	na	na	na	423	306	na
2000-01	8 769	5 981	na	661	316	165	na
2001-02	8 634	6 905	5 034	4 104	382	196	26 800
2002-03	9 642	7 092	5 560	4 681	383	194	28 988
2003-04	8 632	6 408	6 376	4 530	485	154	28 825
2004-05	6 681	7 064	11 026	4 178	582	120	32 229

^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.L., *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 kt	Victoria kt	Queensland kt	South Australia kt	Tasmania kt	Northern Territory kt	Australia kt
1960	1 798	158	na	666	348	8	2 979
1961	1 473	3 089	na	926	622	5	6 115
1962	1 516	2 990	na	759	656	na	6 007
1963	1 883	3 743	na	1 066	929	na	7 747
1964	2 046	4 105	na	887	1 092	62	8 248
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	1 110	270	9 858 s
2002-03	4 265	3 802 s	1 222	115	1 222	608	12 155 s
2003-04	4 355	3 542 s	2 391	79	2 391	414	12 718 s
2004-05	3 760	3 865 s	8 288	45	8 288	206	18 850 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 kt	Victoria kt	Queensland kt	Western Australia kt	South Australia kt	Tasmania kt	Northern Territory kt	Australia kt
1960	3 147	8 189	2 216	923	7 986	520	229	23 209
1961	3 855	11 478	1 900	964	8 747	580	216	27 741
1962	4 011	11 384	2 401	1 341	8 436	627	na	28 392
1963	3 870	12 583	2 574	1 562	8 496	937	na	30 246
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	44 013	832	4 732	2 904	939	89 179

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.

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Summary of Australian statistics for copper

	Production					Consump- tion c	Exports d			Price e
	Mine a	Smelter b	Refined				Volume	Value	Price e	
			Primary	Secondary	Total					
	kt	kt	kt	kt	kt	kt	kt	\$m	\$/t	
1961	97	64	64	5	69	63	53	28	603.0	
1962	109	91	79	5	84	77	39	28	600.0	
1963	115	92	86	7	93	84	37	21	600.0	
1964	106	83	80	8	88	99	33	21	645.0	
1965	92	80	60	14	74	102	37	27	718.0	
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	2 528.7	
1988	238	193	196	27	223	128	157	510	3 391.2	
1989	296	240	230	35	265	129	175	601	3 748.1	
1990	330	235	247	24	271	118	230	765	3 519.2	
1991	320	258	252	20	272	111	243	723	3 144.7	
1992	378	315	300	13	313	123	258	770	3 233.0	
1993	430	344	318	13	331	139	271	723	2 964.3	
1994	418	337	340	20	360	150	305	816	3 222.5	
1995	379	224	266	24	290	158	215	804	4 133.4	
1996	548	264	311	24	314	162	363	993	3 149.8	
1997	549	216	276	25	276	159	402	1 098	3 244.7	
1998	618	211	279	25	279	160	488	1 298	2 823.4	
1999	738	332	412	25	412	164	560	1 429	2 604.6	
2000	839	390	484	0	484	165	621	1 931	3 116.0	
2001	898	455	558	0	558	163	754	2 318	3 043.5	
2002	872	456	543	0	542	189	683	2 000	2 870.3	
2003	830	418	484	0	484	184	704	2 024	2 734.1	
2004	875	440	498	0	498	169	653	2 589	3 898.0	
2005	918	410	461	0	461	158	784	4 088	4 831.7	

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, for Townsville refinery, price discontinued 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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production									
Mine ^a	kt	688	793	875	882	883	811	905	920
Smelter	kt	234	387	419	456	469	389	434	404
Refined	kt	331	502	542	561	537	458	479	461
Primary	kt	306	477	517	561	537	458	479	461
Secondary	kt	25	25	25	0	0	0	0	0
Exports ^b									
Ores and concentrates	kt	1 227	936	1 150	1 271	1 193	1 286	1 326	1 638
Value	\$m	968	776	1 037	1 028	1 048	1 242	1 750	3 519
Refined ^d	kt	160	306	366	388	359	301	322	314
Value	\$m	398	840	1 249	1 131	956	924	1 332	2 162
Consumption ^e	kt	122	175	153	181	222	236	168	127
Export unit value									
Ores and concentrates	A\$/t	789.3	829.1	902.0	808.7	878.8	966.3	1 319.7	2 149.2
Refined	A\$/t	2 479.8	2 749.2	3 409.7	2 918.1	2 666.9	3 075.5	4 140.5	6 884.9

^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, unworried. ^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

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Ores and concentrates								
China	317.2	225.5	285.1	453.2	370.9	361.7	216.3	571.4
Germany	71.2	8.6	0.9	0.0	14.8	4.8	4.0	0.1
India	171.8	267.0	340.4	453.7	362.5	451.1	452.7	443.2
Japan	392.0	332.6	271.5	261.9	322.2	415.7	346.8	440.9
Korea, Rep. of	189.1	111.2	39.9	20.3	38.1	105.5	36.8	82.4
Philippines	61.3	61.5	60.7	30.6	34.3	26.9	76.1	35.9
Other	31.4	29.4	16.9	25.3	11.7	0.8	49.9	32.4
Total	1 233.9	1 035.8	1 015.3	1 245.1	1 154.5	1 366.5	1 182.5	1 606.4
Total Cu content ^s	361.2	302.6	292.5	353.3	317.0	371.2	328.3	449.1
Refined								
Chinese Taipei	45.5	73.2	81.9	90.9	89.8	81.6	96.0	65.4
European Union ^a	14.4	71.4	55.8	72.6	34.8	31.6	2.6	0.1
Indonesia	5.3	7.6	6.0	7.3	12.4	13.1	31.1	38.2
Korea, Rep. of	6.3	31.3	39.9	51.8	57.6	19.6	6.7	39.5
Malaysia	33.4	41.9	75.0	81.7	83.8	81.8	72.6	51.4
Thailand	1.6	12.0	19.0	28.8	35.0	39.6	52.6	64.3
Other	20.3	16.2	45.8	65.4	50.5	56.3	61.1	56.6
Total	126.8	253.8	323.4	398.6	363.8	323.7	322.7	315.5

^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					Consumption kt	Stocks c kt	Price	
	Mine kt	Smelter kt	Refined		producer d US\$/lb			LME e US\$/t	
			Secondary a kt	Total b kt					
1960	4 242	4 287	2 148	4 998	3 926	na	32.1	677.6	
1961	4 394	4 364	2 173	5 144	4 271	na	29.9	632.8	
1962	4 555	4 574	2 237	5 300	4 343	na	30.6	644.0	
1963	4 624	4 635	2 341	5 406	4 607	na	30.6	644.0	
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	5 884	14 465	14 057	1 360	75.9	1 572.6	
2000	13 244	11 866	6 028	14 816	15 192	971	82.3	1 813.5	
2001	13 755	12 364	5 747	15 683	14 685	1 636	71.6	1 577.5	
2002	13 564	11 965	5 568	15 349	15 039	1 712	70.8	1 560.8	
2003	13 701	11 982	5 569	15 184	15 305	1 212	80.7	1 779.5	
2004	14 716	12 242	5 662	15 819	16 641	518	134.2	2 865.9	
2005	15 076	12 669	5 835	16 599	16 699	548	173.6	3 677.7	

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.

269 World copper production, by region and country

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Mine production a								
Africa	645	500	460	524	480	545	613	688
Congo, Dem. Rep. of	35	33	33	33	32	57	70	98
South Africa	188	163	146	142	90	89	86	97
Zambia	379	271	249	307	308	347	410	447
Americas	7 328	7 775	7 779	8 034	7 737	8 007	8 853	8 817
Argentina	170	210	145	192	204	199	177	187
Canada	706	620	634	634	604	557	563	595
Chile	3 687	4 391	4 602	4 739	4 581	4 904	5 413	5 321
Peru	483	536	554	722	845	843	1 036	1 010
Mexico	384	382	365	371	330	356	399	429
United States	1 859	1 600	1 444	1 340	1 140	1 120	1 160	1 140
Asia	1 957	1 996	2 331	2 441	2 514	2 405	2 374	2 525
China	487	520	593	587	568	604	742	651
Indonesia	809	790	1 006	1 047	1 163	1 003	842	1 064
Kazakhstan	338	373	430	470	473	485	468	436
Malaysia	14	10	0	0	0	0	0	0
Mongolia	128	128	127	136	135	132	130	129
Philippines	45	35	31	24	20	20	16	16
Uzbekistan	65	60	65	97	80	82	83	104
Europe	1 383	1 349	1 419	1 435	1 526	1 505	1 646	1 682
Bulgaria	76	77	93	97	84	80	80	95
Poland	436	464	454	474	503	503	531	512
Portugal	115	100	76	83	77	78	96	90
Russian Federation	518	510	580	600	685	665	767	805
Sweden	74	71	78	74	72	83	82	87
Middle East	202	205	222	221	216	207	203	241
Iran	128	130	147	146	141	146	153	193
Turkey	74	74	75	75	75	61	50	48
Oceania	759	925	1 035	1 100	1 090	1 032	1 027	1 123
Australia	618	738	839	898	872	830	875	918
Papua New Guinea	152	188	203	204	211	202	173	193
Other countries	0	0	0	0	0	0	0	0
Total	12 273	12 749	13 244	13 755	13 564	13 701	14 716	15 076

Continued

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World copper production, by region and country *continued*

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Smelter production ^b								
Africa	470	482	493	509	459	464	440	455
South Africa	153	149	136	141	117	112	89	101
Zambia	255	289	308	306	311	320	320	320
Americas	4 606	4 295	3 929	3 994	3 493	3 354	3 404	3 433
Canada	625	617	604	643	539	457	476	472
Chile	1 403	1 474	1 460	1 503	1 439	1 542	1 518	1 558
Mexico	337	371	337	337	263	220	271	323
Peru	356	350	340	379	380	376	378	382
United States	1 718	1 290	1 002	919	683	539	542	523
Asia	3 132	3 775	4 123	4 427	4 484	4 725	4 899	5 283
China	667	837	1 014	1 145	1 180	1 379	1 503	1 605
Japan	1 304	1 390	1 481	1 445	1 499	1 516	1 465	1 518
Kazakhstan	336	384	415	433	446	432	445	405
Korea, Rep. of	281	390	370	390	390	410	390	390
Philippines	162	162	160	217	138	112	120	170
Uzbekistan	65	72	75	97	80	82	85	115
Australia	211	332	390	455	456	418	440	410
Europe	2 489	2 605	2 934	2 974	3 061	3 005	3 056	3 083
Belgium	138	143	145	138	126	120	108	97
Germany	320	330	572	559	578	494	541	510
Poland	451	494	483	514	540	584	581	584
Russian Federation	630	758	758	758	800	790	850	850
Spain	330	318.5	330	305	298	290	224	284
Total	10 928	11 494	11 866	12 364	11 965	11 982	12 242	12 669
Refined copper production								
Africa	478	423	380	453	449	459	501	555
South Africa	123	116	106	107	92	90	81	97
Zambia	306	259	226	308	347	360	410	446
Americas	6 428	6 377	6 073	6 398	5 914	5 682	5 764	5 711
Canada	562	549	551	568	495	455	527	515
Chile	2 335	2 666	2 668	2 882	2 850	2 902	2 837	2 824
Peru	411	434	452	472	503	517	505	510
United States	2 489	2 120	1 802	1 800	1 512	1 310	1 310	1 260
Asia	3 809	4 120	4 603	4 937	5 051	5 326	5 732	6 395
China	1 211	1 174	1 371	1 523	1 632	1 836	2 199	2 583
India	134	208	259	325	374	391	419	518
Japan	1 277	1 342	1 437	1 426	1 401	1 430	1 380	1 395
Kazakhstan	325	362	395	422	453	432	446	419
Korea, Rep. of	369	451	471	476	499	510	496	509
Philippines	152	148	139	165	144	171	175	172
Uzbekistan	65	72	75	97	80	82	85	115
Australia	279	412	484	558	542	484	498	461
Europe	3 120	3 130	3 276	3 337	3 390	3 233	3 332	3 466
Belgium	368	388	423	423	427	423	383	383
Germany	696	696	710	694	696	598	653	642
Poland	447	471	486	499	509	530	550	560
Russian Federation	656	737	824	888	860	818	885	1 008
Spain	304	305	316	280	322	293	228	267
Total	14 120	14 465	14 816	15 683	15 349	15 184	15 819	16 599

^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 Volume of world copper exports, by country

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Concentrates (Cu content)								
Australia	361	303	293	353	317	371	328	449
Canada	414	264	480	622	283	170	165	246
Chile	1 169	1 532	1 780	1 798	1 553	1 798	2 166	2 190
Indonesia	504	485	644	649	719	595	452	596
Papua New Guinea	182	184	186	189	177	222	163	204
Peru	63	48	80	93	371	280	502	523
Portugal	112	110	81	92	49	72	87	94
United States	37	76	175	45	23	10	24	137
Other	342	514	445	433	507	519	598	603
World total	3 183	3 515	4 165	4 275	3 999	4 037	4 485	5 041
Blister and anode copper								
Chile	157	157	170	155	182	276	366	347
Finland	33	32	42	52	43	33	25	30
Mexico	39	31	22	24	18	16	21	18
Namibia	0	0	10	27	25	26	25	0
Peru	45	31	24	31	25	22	0	0
South Africa	16	0	1	35	26	13	1	6
Spain	28	26	27	35	21	37	51	62
Other	269	268	321	351	345	348	380	353
World total	586	545	616	709	685	771	870	816
Refined copper								
Australia	127	254	323	397	364	323	323	315
Belgium	145	172	199	241	201	337	170	241
Canada	356	294	289	310	242	222	289	297
Chile	2 248	2 548	2 518	2 696	2 767	2 614	2 954	2 799
Germany	110	140	94	108	91	118	137	149
Japan	293	318	299	416	378	290	195	248
Kazakhstan	322	354	393	399	391	376	391	401
Peru	348	416	377	433	415	459	318	514
Philippines	102	143	129	157	143	167	159	114
Poland	182	221	240	227	263	284	280	291
Russian Federation	543	634	650	651	505	397	359	301
Singapore	106	137	77	61	59	38	39	34
United States	87	26	97	23	29	123	127	51
Zambia	228	206	217	308	339	363	393	423
Other	1 236	903	823	887	918	925	895	1 277
World total	6 431	6 765	6 726	7 313	7 105	7 034	7 029	7 455

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.

copper

271 Volume of world copper imports, by country

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Ores and concentrates								
Brazil	105	146	122	136	116	103	135	101
Canada	124	138	212	220	128	72	67	84
China ^a	296	313	453	564	516	671	721	1 009
Finland	136	129	114	126	125	136	132	126
Germany	151	210	177	259	259	220	286	287
Japan	1 170	1 249	1 348	1 285	1 261	1 246	1 275	1 320
Korea, Rep. of	243	292	294	293	320	331	327	348
Spain	234	251	234	226	264	263	194	260
United States	218	143	0	122	226	27	23	0
Other	283	313	419	402	493	505	688	613
Total	2 961	3 183	3 374	3 632	3 709	3 574	3 848	4 149
Blister and anode copper								
Belgium	94	140	215	149	209	291	291	238
Canada	20	28	12	21	59	127	149	159
China ^a	96	130	125	91	105	123	114	129
Germany	45	37	32	27	39	17	12	37
Korea, Rep. of	63	60	48	59	69	51	54	33
Mexico	89	58	82	119	73	62	70	64
United States	181	175	195	218	145	159	149	134
Other	41	64	51	43	27	24	70	106
Total	628	691	759	726	726	854	908	899
Refined copper								
Belgium	101	71	41	44	37	58	17	10
Brazil	138	116	158	141	103	151	154	168
China	163	405	668	835	1 181	1 357	1 200	1 222
Chinese Taipei	585	656	629	541	657	621	692	640
France	586	550	586	564	576	579	590	517
Germany	579	565	690	528	460	517	585	625
Greece	105	115	136	130	126	107	120	91
Italy	565	625	603	650	643	651	700	652
Japan	273	230	203	156	114	79	88	74
Korea, Rep. of	487	485	419	380	446	441	488	428
Malaysia	133	158	166	161	187	134	186	246
Singapore	198	116	58	67	40	34	48	41
Thailand	85	117	151	167	186	204	224	235
Turkey	116	141	181	137	187	229	217	224
United Kingdom	349	303	339	311	316	247	214	182
United States	725	916	1 022	1 199	1 062	687	704	977
Other	939	733	746	692	570	573	573	572
Total	6 127	6 301	6 794	6 702	6 891	6 670	6 801	6 902

^a From western world only.

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.

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Summary of Australian statistics for gemstones

	Exports			Imports
	Diamonds	Opals	Sapphires ^a	Gem diamonds
	\$m	\$m	\$m	\$m
1960	0.24	2.07	na	2.47
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	670.87	61.75	1.37	269.90
2003	765.98	56.16	1.11	301.69
2004	456.13	47.28	1.08	320.02
2005	677.85	55.42	1.36	370.57

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

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.

273 Australian supply and disposal of gemstones

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Diamonds									
Production	'000 ct	40 843	29 784	26 647	26 176	33 648	31 013	20 620	30 703
Exports									
Unsorted ^s	'000 ct	52 218	51 703	42 386	21 722	34 442	28 193	20 491	30 594
	\$m	559	495	630	428	568	635	333	546
Sorted									
Gem	'000 ct	32	23	48	39	43	74	89	108
	\$m	62	64	85	89	103	126	122	132
Industrial	'000 ct	0.68	0.30	0.33	0.98	0.19	2 761.25	84.99	0.37
	\$m	1.28	0.74	0.62	0.18	0.50	5.19	0.51	0.21
Total exports	\$m	622	561	715	517	671	766	456	678
Imports									
Gem diamonds	\$m	151	172	223	242	270	302	320	371
Other gemstones									
Exports									
Opals	\$m	63	54	76	70	62	56	47	55
Sapphires ^a	\$m	8	6	8	6	1	1	1	1
Others ^b	\$m	14	11	15	13	14	10	8	9

^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.

274 World production of natural gem and cheap gem diamonds

	1997	1998	1999	2000	2001	2002	2003	2004
	million ct	million ct	million ct	million ct	million ct	million ct	million ct	million ct
Angola	1.31	2.76	3.57	4.01	5.10	5.70	6.30	7.50
Australia	40.18	40.84	29.78	26.65	26.18	33.65	31.01	20.62
Botswana	20.11	19.64	21.26	24.64	26.19	28.37	30.40	31.13
Congo, Dem. Rep. of	20.98	21.36	22.00	16.50	19.64	21.99	29.00	29.00
Namibia	1.42	1.47	1.63	1.54	1.49	1.54	1.45	2.00
Russian Federation	19.40	19.80	16.20	20.50	20.50	20.00	33.02	35.52
South Africa	10.04	10.70	10.01	10.79	11.16	10.88	12.67	14.46
Other	3.76	3.33	6.75	6.87	8.05	9.28	15.13	17.37
Total	117.20	119.90	111.20	111.50	118.30	131.40	159.00	157.60

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

275 Summary of Australian statistics for gold

	Mine production t	Exports ^a		Price ^d	
		Volume ^b	Value ^c		
		t	\$m	A\$/oz	US\$/oz
1960	34	82	79	31.23	35.00
1961	33	37	34	31.29	35.00
1962	33	12	10	31.23	35.00
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	248	275	4 672	530.94	359.89
1994	255	277	4 664	527.92	384.09
1995	253	316	5 251	521.02	384.15
1996	289	325	5 223	497.98	387.72
1997	314	340	4 912	446.17	331.14
1998	310	504	7 621	469.17	294.23
1999	300	334	4 720	433.07	279.08
2000	296	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	283	312	5 551	559.68	363.68
2004	258	312	5 551	557.15	409.28
2005	263	306	5 693	585.23	444.91

^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.

276 Australian gold production, imports and exports

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Production									
Mine	t	310.3	299.7	296.4	280.1	266.1	283.4	258.1	263.0
Refined primary									
Australian origin	t	264.0	296.1	302.2	288.0	261.8	257.0	230.8	220.2
Overseas origin	t	17.6	13.2	15.1	16.8	40.5	74.1	81.7	71.1
Refined secondary									
Australian origin	t	11.0	4.6	7.6	23.3	7.2	4.3	4.3	6.3
Overseas origin	t	115.6	61.8	24.4	45.1	39.8	75.9	53.4	43.4
Exports									
Refined and unrefined bullion ^a									
Chinese Taipei	t	18.0	19.0	17.7	15.7	6.5	3.6	0.5	0.0
Hong Kong, China	t	41.5	31.6	25.5	49.1	29.6	11.7	1.2	1.2
India	t	11.5	3.3	0.5	9.8	13.8	66.1	161.0	164.4
Japan	t	25.6	21.7	23.1	16.0	24.5	8.5	9.4	16.5
Korea, Rep. of	t	82.1	39.6	58.1	45.1	50.3	41.7	30.6	5.3
Middle East	t	14.5	6.6	6.4	28.2	11.1	0.8	0.0	0.0
Switzerland	t	54.9	8.5	1.5	4.5	1.1	4.6	0.0	1.1
Thailand	t	8.5	8.9	8.3	5.1	22.5	11.5	27.2	55.7
United Kingdom	t	122.2	40.4	26.6	54.6	69.8	148.9	56.6	29.2
Other	t	125.1	154.6	128.7	75.6	40.0	15.1	24.8	32.6
Total	t	503.9	334.2	296.4	303.6	269.1	312.6	311.4	305.8
	\$m	7 620.8	4 719.7	4 634.5	5 085.8	4 907.9	5 551.2	5 550.8	5 693.5
Imports									
Refined and unrefined	\$m	3 158.8	1 999.7	1 643.3	2 145.6	2 503.8	2 910.4	2 448.5	2 792.0
Price ^b	\$/oz	469.17	433.07	480.37	521.30	570.30	559.68	557.15	585.23

^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.

277 Australian gold production, by state

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
	†	†	†	†	†	†	†	†
Mine production								
1983	0.67	0.11	1.06	na	23.92	2.08	2.74	30.58
1984	1.11	0.41	1.75	na	32.11	1.93	2.99	40.30
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	8.58	4.07	32.43	0.93	183.49	1.32	17.09	247.90
1994	8.13	3.83	30.67	1.10	192.48	1.39	17.42	255.01
1995	10.03	4.30	28.76	0.97	189.84	0.75	18.44	253.08
1996	11.31	4.52	28.65	1.25	220.19	1.74	21.89	289.03
1997	11.71	4.82	29.40	1.64	238.04	4.15	24.32	314.09
1998	14.76	4.89	32.38	1.74	231.98	4.18	20.38	310.32
1999	21.04	4.63	34.15	1.77	210.92	4.95	22.29	299.75
2000	18.58	4.23	37.10	2.95	203.74	6.68	23.14	296.41
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	17.95	266.14
2003	27.49	3.11	26.24	5.33	189.07	9.31	22.85	283.39
2004	29.14	3.46	23.16	5.12	164.32	10.60	22.27	258.07
2005	29.46	5.24	23.99	6.24	173.16	8.34	16.55	262.96
Share of total								
	%	%	%	%	%	%	%	
1983	2.19	0.36	3.47	na	78.22	6.80	8.96	
1984	2.75	1.02	4.34	na	79.68	4.79	7.42	
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	3.46	1.64	13.08	0.37	74.02	0.53	6.89	
1994	3.19	1.50	12.03	0.43	75.48	0.55	6.83	
1995	3.96	1.70	11.36	0.38	75.01	0.30	7.28	
1996	3.91	1.56	9.91	0.43	76.18	0.60	7.57	
1997	3.73	1.54	9.36	0.52	75.79	1.32	7.74	
1998	4.76	1.58	10.43	0.56	74.75	1.35	6.57	
1999	7.02	1.55	11.39	0.59	70.37	1.65	7.44	
2000	6.27	1.43	12.52	0.99	68.73	2.25	7.81	
2001	6.11	1.25	11.39	1.54	70.19	2.21	7.32	
2002	8.82	1.22	9.42	1.18	70.34	2.27	6.75	
2003	9.70	1.10	9.26	1.88	66.72	3.29	8.06	
2004	11.29	1.34	8.98	1.98	63.67	4.11	8.63	
2005	11.20	1.99	9.12	2.37	65.85	3.17	6.29	

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.

278 World supply, demand and price of gold

	Unit	1997	1998	1999	2000	2001	2002	2003	2004	2005
Supply										
Mine production										
Australia	t	314	310	300	296	280	266	283	258	263
Asia	t	233	279	294	295	331	309	330	291	339
Canada	t	172	164	158	155	157	148	141	129	119
China	t	163	165	163	172	193	202	206	217	224
Europe	t	27	27	24	19	20	21	19	20	19
Latin America	t	316	339	381	377	375	392	406	412	460
Russian Federation	t	138	127	138	154	165	181	182	182	176
South Africa	t	493	464	450	428	394	395	376	343	296
Other Africa	t	146	169	185	193	221	237	230	215	232
United States	t	362	366	342	355	335	299	281	260	262
Other	t	131	130	141	145	146	138	138	144	132
Total mine production	t	2 494	2 542	2 574	2 591	2 616	2 592	2 590	2 470	2 519
Forward sales and option hedging	t	504	97	506	- 15	- 151	- 412	- 270	- 427	- 131
Net official sales	t	326	363	477	479	520	547	617	469	656
Net scrap sales	t	631	1 105	615	616	713	840	943	848	861
Net other sales	t	305	0	0	292	115	171	0	0	0
Total supply a	t	4 211	4 107	4 172	4 010	3 887	3 979	4 150	3 847	4 036
Demand										
Fabrication consumption										
Jewellery	t	3 287	3 164	3 132	3 196	3 001	2 653	2 477	2 613	2 712
Electronics	t	234	226	247	283	197	206	233	259	273
Dentistry	t	70	64	66	69	69	69	67	68	62
Official coins	t	118	147	155	77	83	97	107	114	111
Medals and unofficial coins	t	24	27	25	29	29	27	26	26	37
Other	t	115	103	99	99	97	83	80	83	85
Total fabrication	t	3 848	3 731	3 724	3 753	3 475	3 134	2 990	3 163	3 280
Net bullion purchases	t	362	376	448	242	261	433	890	256	625
Total demand a	t	4 211	4 107	4 172	4 010	3 887	3 979	4 150	3 847	4 036
Gold price b	\$/oz	331.14	294.23	279.08	279.28	271.09	310.20	363.68	409.28	444.91

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*, London; London Bullion Market Association.

279 Summary of Australian statistics for gypsum

	Production kt	Exports ^a		
		Volume kt	Value \$'000	Unit value \$/t
1960	590.2	87.0	479	5.51
1961	619.7	90.0	570	6.33
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	290.9	6 323	21.73
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	3 856.9	878.4	15 172	17.27
2005-06	na	1 525.8	26 449	17.33

^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.

280 Australian production of gypsum, by state

	New South Wales kt	Victoria kt	Queensland kt	South Australia kt	Western Australia kt	Australia kt
1960	97.0	102.0	na	346.2	44.9	590.2
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	1 383.1	3 856.9

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.

281 Australian exports of gypsum

	Raw ^a						Calcined	
	Indonesia	New Zealand	Singapore	Other	Total		Volume	Value
					Volume	Value		
	kt	kt	kt	kt	kt	\$'000	t	\$'000
1960	0.0	72.4	0.0	14.6	87.0	479	na	na
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	na	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	30.3	0.6	0.1	259.9	290.9	6 323	8 279	2 722
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

^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 Summary of Australian statistics for iron ore and steel ^a

	Production ^a				Exports		
	Iron ore		Pig iron	Crude steel	Iron ore and pellets	Pig iron	Crude steel ^{bs}
	Pellets	Total					
	kt	kt	kt	kt	kt	kt	kt
1960	na	4 455	2 929	3 747	na	101	10
1961	0	5 463	3 211	3 844	0	301	88
1962	0	5 048	3 490	4 235	0	160	100
1963	0	5 689	3 683	4 652	0	135	32
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	9 678	187 708	72	3 955
2004	2 103	233 994	5 735	8 353	209 828	70	2 997
2005	2 165	261 855	6 648	7 788	239 305	0	2 265

^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. ^{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.

284 Volume of Australian exports of iron and steel, by destination ^a

	1998	1999	2000 ^b	2001 ^b	2002 ^b	2003 ^b	2004 ^b	2005 ^b
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	18	18	16	59	8	5	7	2
Americas								
North	1 123	986	544	88	270	254	259	251
Other	129	96	93	44	44	35	15	4
Total	1 252	1 082	637	132	314	289	274	255
Asia								
China	56	55	93	698	877	1 251	430	6
Chinese Taipei	287	230	183	78	39	65	155	50
Hong Kong, China	154	86	45	16	9	12	5	15
India	154	62	20	4	41	6	5	1
Indonesia	51	165	82	75	36	46	61	51
Japan	76	72	53	25	175	3	5	27
Korea, Rep. of	302	598	302	343	149	271	93	78
Malaysia	87	115	66	48	17	94	51	6
Philippines	88	56	11	19	2	3	3	3
Singapore	57	45	19	7	51	7	7	3
Thailand	154	194	124	29	51	70	81	64
Other	47	82	52	37	78	139	50	57
Total	1 512	1 760	1 049	1 379	1 525	1 966	946	360
Europe	464	230	212	73	224	77	6	4
New Zealand	90	138	92	91	137	112	117	67
Other	29	26	501	13	65	77	13	10
Total	3 364	3 253	2 507	1 747	2 275	2 526	1 364	698

^a Includes all items in ABS, *Australian Harmonized Export Commodity Classification*, chapter 72, 'Iron and steel', excluding ferrous waste, scrap and ferroalloys. ^b 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.

285 Australian supply and disposal of iron ore and steel

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production								
Iron ore and concentrate	kt	159 750	175 445	185 273	199 149	222 815	251 918	263 815
Pig iron	kt	7 048	6 533	6 062	6 111	5 926	6 080	6 765
Raw steel	kt	8 053	8 003	8 611	9 399	9 480	7 556	7 941
Exports								
Iron ore and pellets	kt	149 436	157 320	156 130	181 478	194 773	228 456	239 332
	\$m	3 779	4 903	5 160	5 342	5 277	8 120	12 832
Iron and steel s	kt	2 941	2 931	3 297	3 589	3 818	2 338	2 428
	\$m	1 265	1 484	1 484	1 855	2 004	2 031	1 674
Scrap	kt	754	1 063	934	890	955	1 009	1 876
	\$m	155	212	177	211	298	402	467
Export unit value								
Iron ore and pellets	\$/t	25.29	31.16	33.05	29.44	27.09	35.54	53.62

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.

286 Volume of Australian iron ore exports, by destination a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Asia								
China	26 840	26 219	33 293	38 023	44 018	59 971	80 109	117 537
Chinese Taipei	7 306	8 017	9 089	9 904	9 347	8 664	9 095	9 144
Japan b	60 633	64 889	69 362	66 830	70 492	75 353	80 314	76 200
Korea, Rep. of	17 793	19 154	21 203	23 810	25 120	26 000	26 472	24 978
Other	725	830	828	922	865	594	494	215
United States	1 038	618	609	436	628	67	0	0
Western Europe	21 333	18 890	21 484	15 867	14 450	16 051	12 563	10 914
Other c	750	662	1 501	926	949	1 008	782	317
Total	136 418	139 278	157 368	156 718	165 869	187 708	209 828	239 305

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.

287 Summary of world statistics for iron ore and steel

	Production				Iron ore exports a
	Iron ore a		Iron b	Crude steel	
	Pellets	Total			
	Mt	Mt	Mt	Mt	Mt
1960	16.1	522.0	241.5	347.1	151.9
1961	17.9	503.8	251.1	347.2	149.2
1962	22.0	523.4	257.2	353.6	157.9
1963	29.6	516.2	272.4	379.2	164.7
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	899.5	517.4	750.0	455.1
1997	249.5	920.2	546.6	798.9	481.5
1998	242.6	899.4	539.5	777.3	461.9
1999	233.5	891.0	541.1	789.0	444.8
2000	259.1	953.3	576.3	847.7	505.1
2001	239.1	934.6	578.4	850.3	501.9
2002	265.9	988.9	611.0	903.8	533.5
2003	283.0	1 079.9	670.1	969.1	590.5
2004	303.6	1 190.4	719.3	1 058.5	646.0
2005	310.7	1 312.9	768.3	1 129.4	718.9

^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.

288 World iron ore production, by country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	153.5	155.0	167.9	181.2	187.2	213.0	234.0	261.9
Brazil ^b	183.1	188.7	208.8	210.0	225.1	245.6	270.5	292.4
Canada	38.7	34.0	35.9	27.9	30.9	33.3	28.3	28.3
China ^c	116.0	111.5	105.3	102.6	108.8	122.7	145.7	197.6
CIS ^d	132.7	138.6	157.5	152.0	158.7	171.2	181.2	181.9
India	71.7	70.2	74.9	79.2	86.4	99.1	120.6	145.5
South Africa	33.0	29.5	33.7	34.8	36.5	38.1	39.3	39.5
Sweden	20.9	18.9	20.6	19.5	20.3	21.5	22.3	23.3
United States	62.9	57.8	63.1	45.8	51.5	48.5	54.7	54.5
Venezuela	16.7	17.0	17.4	19.0	20.9	19.2	20.0	21.4
Other	70.1	69.8	68.1	62.6	62.7	67.8	73.8	66.6
Total	899.4	891.0	953.3	934.6	988.9	1 079.9	1 190.4	1 312.9

^a Natural weight. ^b Pellets not included. ^c Low Fe content. ^d Commonwealth of Independent States (CIS). Members of the former Soviet Union that are not part of the CIS are Lithuania, Latvia, Estonia and Georgia.

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.

289 Volume of world iron ore exports, by country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	136.4	139.3	157.4	156.7	165.9	187.7	209.8	239.3
Brazil	143.2	140.2	160.1	155.7	170.0	184.4	200.9	224.2
Canada	30.6	26.9	26.5	22.0	25.6	27.1	23.1	27.9
Former Soviet Union ^b	37.3	29.3	45.9	50.1	41.4	47.2	46.4	49.6
India	32.8	31.0	32.9	37.3	46.6	57.3	62.7	80.9
Mauritania	11.4	11.0	11.1	10.1	10.5	9.6	11.0	10.6
South Africa	22.1	21.1	21.4	23.5	24.3	24.1	24.7	27.4
Sweden	16.0	13.9	16.0	13.6	14.2	15.6	17.3	17.8
Venezuela	8.6	6.6	6.9	6.9	6.7	7.4	9.3	7.6
Other	23.5	25.5	26.9	26.0	28.3	30.0	40.8	33.6
Total	461.9	444.8	505.1	501.9	533.5	590.5	646.0	718.9

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.

iron ore and steel

290 Volume of world iron ore imports, by region and country ^a

	1997 Mt	1998 Mt	1999 Mt	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 Mt	2005 Mt
Africa and Middle East									
Qatar	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.4	1.3
Saudi Arabia	2.7	3.3	3.0	2.9	3.5	4.7	4.3	4.1	9.7
Other	9.3	7.8	7.4	11.2	9.6	10.0	10.3	11.2	14.0
Total	12.6	11.7	10.9	14.6	13.5	14.9	15.0	15.7	25.0
Americas									
Argentina	5.3	5.4	4.5	5.4	4.5	5.2	6.3	5.4	5.0
Canada	7.1	7.2	7.3	6.6	5.9	6.8	6.6	8.0	9.6
Mexico	2.8	4.0	3.9	3.1	2.3	2.7	3.6	4.4	2.6
United States	18.6	17.0	14.2	15.7	10.6	12.5	12.5	11.8	13.0
Other	1.7	1.6	1.3	2.5	3.3	3.2	3.4	3.7	3.9
Total	35.5	35.2	31.3	33.2	26.7	30.4	32.5	33.2	34.1
Asia and Oceania									
China	55.1	51.8	55.3	70.0	92.4	111.4	148.1	208.1	275.3
Chinese Taipei	14.0	14.0	13.2	14.9	15.6	15.2	15.6	15.7	14.6
Indonesia	1.9	1.3	2.4	2.2	1.3	1.3	1.6	2.0	1.7
Japan	126.6	120.8	120.1	131.7	126.3	129.1	132.1	134.9	132.3
Korea, Rep. of	38.6	33.6	35.4	39.0	45.9	43.3	43.1	44.2	43.5
Malaysia	2.6	1.1	1.4	1.7	1.6	1.2	2.4	2.2	2.0
Pakistan	1.7	1.4	1.6	1.5	1.4	1.5	1.5	1.0	1.2
Other	18.1	13.4	16.8	16.9	14.5	17.2	16.8	16.9	24.8
Total	258.6	237.4	246.2	278.0	299.0	320.3	361.2	425.0	495.3
Europe									
Austria	5.1	5.2	4.4	5.4	5.3	5.8	5.7	5.8	7.4
Belgium-Luxembourg	10.6	13.5	12.1	11.9	11.1	12.2	12.1	10.6	9.3
Bulgaria	2.2	2.1	1.7	1.8	1.3	1.5	1.7	1.7	1.4
Czech Republic	7.4	7.4	5.4	6.9	6.9	6.8	8.2	7.6	6.8
Finland	3.7	3.9	3.8	3.9	3.9	3.7	4.2	3.8	4.2
Former Yugoslavia	1.1	0.1	1.3	0.3	0.1	0.3	1.8	2.1	2.9
France	20.2	20.7	20.3	19.7	16.7	19.0	19.0	20.8	19.5
Germany	46.4	46.8	39.2	47.6	40.1	44.3	38.9	46.4	39.1
Hungary	1.5	2.1	1.7	2.1	1.7	1.7	1.8	1.1	1.0
Italy	16.7	15.7	15.6	17.6	15.8	15.0	15.3	16.7	17.7
Netherlands	8.6	8.8	7.9	8.9	6.3	7.4	8.6	12.6	12.3
Poland	10.3	9.7	7.3	9.7	7.7	7.0	8.6	10.8	7.4
Portugal	0.6	0.6	0.5	0.6	0.7	0.1	na	na	na
Romania	6.6	6.6	4.2	4.5	3.9	6.2	7.0	6.6	6.6
Russia	7.3	4.1	4.1	9.1	8.8	8.7	10.1	10.4	9.7
Slovakia	4.3	4.0	4.3	4.7	3.8	5.1	5.7	6.1	5.5
Spain	5.8	6.6	6.3	6.3	6.6	6.2	5.8	6.2	6.2
Turkey	2.9	3.9	3.0	4.1	2.6	5.1	5.5	4.6	4.6
Ukraine	3.4	3.1	3.3	7.4	6.3	5.0	7.6	3.3	3.0
United Kingdom	21.0	20.8	17.0	16.7	15.3	13.3	16.1	15.3	16.1
Other	1.7	0.8	1.4	0.4	0.1	0.4	1.9	2.2	3.0
Total	187.4	186.5	164.6	189.7	165.1	174.7	185.7	194.8	183.7
Total	476.9	472.2	444.5	506.7	501.5	533.8	584.9	677.3	731.2

^a Natural weight. na Not available.

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.

291 Iron ore prices

	Australian		Spot ^b		Negotiated ^d	
	export unit value ^a		Nominal	Real ^c	Fines	Lump
	A\$/t	US\$/t	US\$/t	US\$/t	USc/dltu	USc/dltu
1960	na	na	11.42	78.06	na	na
1961	na	na	11.02	74.53	na	na
1962	na	na	11.01	73.58	na	na
1963	na	na	11.02	72.74	na	na
1964	6.09	6.82	10.24	66.74	na	na
1965	8.26	9.25	10.24	65.70	na	0.00
1966	8.38	9.39	9.80	61.03	na	0.00
1967	8.36	9.36	9.20	55.75	12.00	15.50
1968	8.67	9.71	8.77	50.97	12.00	15.50
1969	8.69	9.73	9.84	54.22	12.00	15.50
1970	8.04	9.00	9.84	51.23	12.00	15.50
1971	7.69	8.72	10.33	51.57	12.00	15.10
1972	7.29	8.69	10.33	49.94	11.90	15.00
1973	6.19	8.80	10.33	47.03	11.80	14.90
1974	7.04	10.13	13.38	54.85	11.70	14.80
1975	9.32	12.21	24.40	91.65	13.30	17.30
1976	10.23	12.53	22.72	80.71	15.40	19.30
1977	12.06	13.38	23.14	77.18	17.40	21.20
1978	12.06	13.81	21.53	66.72	17.70	21.70
1979	12.87	14.39	23.56	65.62	20.20	24.70
1980	14.59	16.63	28.12	68.97	21.20	24.30
1981	15.79	18.15	28.11	62.49	23.10	26.10
1982	19.88	20.23	32.50	68.08	27.60	31.20
1983	21.23	19.16	29.00	58.86	29.70	34.20
1984	18.87	16.60	26.15	50.89	34.80	40.00
1985	22.98	16.10	26.56	49.91	30.45	34.85
1986	24.33	16.32	26.26	48.43	26.67	30.87
1987	21.54	15.10	24.50	43.59	27.05	31.55
1988	18.68	14.65	23.50	40.17	25.97	30.29
1989	20.53	16.27	26.56	43.31	24.67	28.78
1990	23.55	18.40	30.80	47.65	23.68	28.78
1991	25.92	20.20	33.25	49.35	26.76	33.76
1992	27.18	19.99	31.62	45.55	31.03	39.15
1993	25.93	17.63	28.14	39.38	33.49	41.48
1994	21.75	15.91	25.47	34.74	31.85	38.84
1995	22.49	16.68	26.95	35.75	28.35	35.34
1996	22.68	17.75	28.57	36.82	27.15	35.89
1997	24.29	18.07	28.88	36.37	28.78	37.68
1998	29.23	18.40	29.69	36.82	29.10	37.68
1999	25.63	16.54	26.96	32.72	29.92	38.79
2000	28.14	16.38	27.67	32.48	26.63	34.83
2001	33.38	17.28	28.92	33.02	27.79	36.84
2002	31.33	17.04	28.62	32.16	28.98	38.03
2003	27.15	17.70	31.04	34.11	28.28	36.13
2004	29.40	21.67	36.45	39.01	30.83	39.35
2005	46.26	31.11	62.51	64.71	36.57	46.68

^a Australia commenced commercial exports of iron ore in 1964. ^b Before 1965, Liberia Nimba, 27 per cent fines, cif North Sea ports; after 1965, Brazilian Itabira standard sinterfeed, 61.5 per cent iron, cif German ports. ^c In 1992 dollar terms. ^d Negotiated Japanese fiscal year hematite ores, fob. **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.

292 Summary of Australian statistics for lead

	Production			Consumption	Exports ^d		Price ^e
	Mine ^a	Bullion ^b	Refined ^c		Volume	Value	
	kt	kt	kt	kt	kt	\$m	\$/t
1960	313	54	190	54	253	41	196.8
1961	274	49	162	52	282	41	195.5
1962	376	74	190	50	388	50	161.6
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

^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.

293 Australian supply and disposal of lead

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production									
Mine a	kt	661	690	724	744	695	677	682	761
Bullion b	kt	157	165	153	201	181	143	153	141
Refined									
Primary	kt	199	233	215	275	267	247	234	234
Secondary	kt	30	33	33	34	36	35	36	33
Exports									
Ores and concentrates	kt	397	436	433	380	366	417	417	502
	\$m	213.0	264.1	318.2	323.3	288.7	387.2	490.4	710.2
Bullion	kt	140	135	119	153	150	113	164	140
	\$m	143.9	155.1	151.5	194.8	164.8	141.9	245.8	235.3
Refined metal	kt	201	258	199	236	269	231	243	244
	\$m	180.0	187.5	167.2	210.6	203.4	198.8	305.1	349.7
Consumption c	kt	62	44	41	39	38	38	33	32
Export unit value									
Ores and concentrates	A\$/t	536.2	605.3	735.1	850.2	788.9	927.6	1 176.6	1 413.9
Bullion	A\$/t	1 026.6	1 150.9	1 276.4	1 276.7	1 097.3	1 253.4	1 498.9	1 679.2
Refined	A\$/t	894.2	727.4	841.2	891.2	755.5	860.9	1 256.0	1 431.1

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.

294 Volume of Australian exports of lead, by destination ^a

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Ores and concentrates ^b								
Belgium	52	58	73	64	57	50	30	24
China	26	35	70	74	42	64	83	138
Japan	46	36	39	48	31	43	22	43
Korea, Rep. of	64	72	81	100	130	98	98	110
United States	14	15	9	6	na	na	na	na
Other	29	41	13	12	4	8	31	16
Total	231	257	285	304	264	263	264	331
Bullion								
United Kingdom	134	138	109	148	151	133	150	164
Total ^c	134	138	109	148	151	133	150	164
Refined metal								
Chinese Taipei	25	34	44	30	30	34	12	6
Hong Kong, China	0	15	9	12	13	17	11	15
India	14	13	24	21	20	13	23	32
Indonesia	16	19	21	16	13	17	11	12
Japan	3	2	2	na	na	na	na	na
Korea, Rep. of	23	28	26	28	33	42	49	19
Malaysia	12	43	16	13	15	18	13	9
South Africa	12	11	9	11	12	11	13	12
Thailand	5	7	10	16	21	25	14	26
United States	0	41	31	37	53	20	na	21
Other	25	42	27	23	53	70	65	93
Total	135	255	219	207	263	267	211	245

^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.

295 World production, consumption, stock and prices of lead

	Production				Consumption	Stocks ^b	Price ^c
	Mine ^a	Refined metal		Total			
		Primary	Secondary ^b				
	kt	kt	kt	kt	kt	kt	US\$/t
1960	2 372	2 479	748	3 227	3 080	457	195.7
1961	2 392	2 573	726	3 299	3 153	551	174.4
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	6 764	6 848	407	515.1
2004	3 129	3 776	3 181	6 957	7 283	299	886.5
2005	3 298	4 335	3 209	7 544	7 721	295	967.3

^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.

296 World lead production, by region and country ^a

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Mine								
Africa	182	179	178	150	130	102	117	130
Morocco	80	80	82	77	62	41	59	64
South Africa	84	80	75	51	50	40	37	42
Americas	1 146	1 111	1 053	1 092	1 024	1 029	985	1 016
Canada	190	162	149	154	97	81	77	79
Mexico	166	126	138	149	139	139	118	134
Peru	258	271	271	289	297	308	306	319
United States	491	513	458	463	449	458	439	434
Asia	721	688	805	728	772	1 104	1 154	1 191
China	581	549	660	599	641	955	997	1 023
India	38	38	36	32	32	44	51	58
Kazakhstan	26	31	39	43	43	44	44	45
Korea, Dem. Rep. of	25	16	12	9	10	20	20	20
Other	51	54	58	45	43	41	42	45
Australia	584	633	650	714	658	648	642	715
Europe	357	355	360	324	245	228	230	247
Bulgaria	22	14	14	16	24	17	13	13
Ireland	36	39	57	45	32	50	65	64
Poland	60	63	51	53	57	55	53	51
Sweden	112	118	107	88	44	51	55	61
Other	127	121	131	122	88	55	44	58
Total	2 990	2 966	3 046	3 008	2 830	3 111	3 129	3 298
Refined ^b								
Africa	127	131	125	125	144	138	100	130
Americas	2 182	2 135	2 216	2 087	2 092	2 092	2 005	2 007
Canada	266	266	284	231	252	223	241	229
Mexico	259	199	241	236	232	239	242	256
Peru	104	111	116	118	120	112	119	122
United States	1 436	1 447	1 457	1 376	1 364	1 392	1 262	1 259
Other	117	112	118	111	124	126	141	141
Asia	1 643	1 882	2 163	2 209	2 361	2 630	3 002	3 429
China	757	918	1 100	1 195	1 325	1 564	1 934	2 334
India	66	64	67	63	78	71	49	59
Japan	302	293	312	302	286	295	283	275
Kazakhstan	92	159	208	159	152	141	144	142
Korea, Rep. of	180	190	220	211	243	230	243	256
Other	246	258	256	278	277	323	349	363
Australia	200	271	259	271	302	307	273	268
Europe	1 852	1 855	1 881	1 893	1 761	1 589	1 569	1 702
France	289	273	262	230	203	101	104	90
Germany	353	353	387	375	378	357	411	418
Italy	199	215	231	227	196	214	202	211
Spain	94	98	120	122	116	102	105	110
United Kingdom	370	372	338	382	368	320	243	304
Other	547	544	545	557	500	495	504	569
Other countries	6	6	11	9	10	8	8	8
Total	6 010	6 280	6 655	6 594	6 670	6 764	6 957	7 544

^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.

297 Volume of world lead trade, by major countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Exports								
Ores and concentrates ^a								
Australia	231	257	285	304	264	263	264	331
Belgium	64	59	63	58	64	51	68	58
Canada	37	49	49	58	42	8	1	0
Ireland	35	40	57	49	31	49	64	65
Peru	142	148	145	151	179	178	186	171
South Africa	21	66	77	38	45	39	44	51
Sweden	79	71	73	68	36	34	34	35
United States	72	93	117	185	245	257	295	387
Refined lead								
Australia	135	255	219	207	263	267	211	245
Belgium	87	69	104	81	62	75	62	90
Bulgaria	na	70	72	68	58	60	54	58
Canada	157	166	167	144	163	149	150	161
China	236	450	443	448	399	438	448	455
France	86	76	76	61	56	11	5	5
Germany	93	80	114	145	133	100	79	97
Mexico	72	28	20	13	9	12	9	18
Morocco	59	54	56	52	70	58	21	28
Peru	100	101	111	115	109	109	113	96
Sweden	57	57	65	52	58	66	63	63
United Kingdom	100	81	84	89	100	62	38	51
United States	24	23	21	17	31	92	59	46
Imports								
Ores and concentrates ^a								
Belgium	58	58	71	61	69	48	72	78
Canada	23	56	47	53	68	70	93	60
China	127	93	158	255	216	374	454	567
France	120	115	133	109	88	0	0	0
Germany	85	111	115	146	122	108	121	103
Italy	59	110	95	66	63	52	59	65
Japan	118	122	128	117	117	109	94	102
Korea, Rep. of	99	90	126	145	138	151	143	156
United Kingdom	33	25	14	8	0	0	0	0
Refined lead								
Austria	50	36	39	40	42	38	30	12
Chinese Taipei	101	121	126	121	122	98	125	98
France	47	67	80	74	74	101	86	106
Germany	95	87	112	157	136	134	89	85
Italy	75	91	68	77	107	61	95	67
Korea, Rep. of	90	117	113	131	147	153	157	159
Malaysia	56	100	79	74	77	125	62	24
Singapore	36	96	80	89	86	17	41	50
Spain	95	100	104	114	171	119	150	171
Thailand	21	161	51	48	65	79	77	68
United Kingdom	29	38	105	31	29	20	35	27
United States	267	311	357	270	211	176	199	298

^a Metal content.

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

298 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	130 256	1 559	636	8 182
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	17 076	332 931	6 516	547	8 695
2004-05	17 211	331 515	6 568	473	7 218
2005-06	na	177 610	4 254	430	6 617

^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.

299 Australian production of limestone, by state

	New South Wales kt	Victoria kt	Queensland kt	Western Australia kt	South Australia kt	Tasmania kt	Australia kt
1960	2 439	1 176	531	315	1 081	218	5 760
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	2 754	4 614	1 983	1 924	17 076
2004-05	4 813	1 133	3 100	3 787	2 537	1 764	17 211

^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.

h1>limestone

h2>300 Australian imports of limestone and lime

	Limestone				Lime	
	Japan	Other	Total		Volume	Value
	kt	kt	Volume	Value	t	\$'000
			kt	\$'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	580	57	636	8 182	135	32
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	375	55	430	6 617	618	204

na Not available.

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

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Summary of Australian statistics for manganese

	Mine production	Exports		Prices ^b US\$/mtu
	(ore) kt	Ore kt	Ferromanganese ^a kt	
1960	62	46	0	28.00
1961	89	53	0	26.00
1962	73	64	0	31.00
1963	37	17	0	29.00
1964	62	54	0	24.00
1965	102	67	0	23.00
1966	318	144	0	23.00
1967	558	320	0	22.00
1968	744	565	0	19.00
1969	903	664	0	18.12
1970	751	631	0	18.85
1971	1 051	794	0	17.82
1972	1 165	na	0	25.00
1973	1 522	1 513	na	30.20
1974	1 522	1 203	1	39.00
1975	1 555	1 132	na	58.00
1976	2 154	1 711	1	64.00
1977	1 389	811	13	65.00
1978	1 257	936	19	59.00
1979	1 724	1 157	32	57.00
1980	2 020	1 328	23	65.00
1981	1 449	900	16	67.00
1982	1 127	906	17	63.00
1983	1 370	1 004	29	54.00
1984	1 849	1 460	19	56.00
1985	2 003	1 403	20	57.00
1986	1 649	1 145	44	55.00
1987	1 854	1 306	47	50.00
1988	1 986	1 553	41	68.64
1989	2 119	1 620	27	108.00
1990	1 950	1 600	43	160.80
1991	1 390	1 075	20	160.80
1992	1 239	902	46	141.60
1993	1 887	1 720	59	108.00
1994	1 985	1 590	76	99.96
1995	1 905	1 630	73	97.92
1996	2 109	1 740	59	105.12
1997	2 136	1 541	41	99.86
1998	1 501	1 067	57	97.92
1999	1 899	1 213	na	91.20
2000	1 658	1 411	na	97.44
2001	1 961	1 591	na	101.28
2002	2 189	1 836	na	94.56
2003	2 564	2 308	na	103.60
2004	3 431	1 518	na	117.50
2005	3 136	2 929	na	na

^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.

manganese

302 Australian supply and disposal of manganese

		1998	1999	2000	2001	2002	2003	2004	2005
Production									
Manganese ore	kt	1 501	1 899	1 658	1 961	2 189	2 564	3 431	3 136
Exports									
Manganese ore ^s	kt	1 067	1 213	1 411	1 591	1 836	2 308	1 518	2 929
Ferromanganese ^a	kt	57	na	na	na	na	na	na	na
	\$m	37	na	na	na	na	na	na	na
Imports									
Ferromanganese	kt	11.7	6.1	4.7	5.8	6.0	6.9	9.8	7.3
	\$m	12.2	6.2	4.7	6.3	5.4	5.8	12.5	11.4
Ferrosilicon and silicomanganese	kt	34.2	33.1	29.1	28.1	30.7	31.7	33.5	37.3
	\$m	37.4	32.5	30.8	33.2	34.5	31.6	35.3	42.2
Prices									
Japanese negotiated ^b	US\$/t	203.63	190.75	185.96	198.50	198.50	198.50	198.50	327.06

^a Data became confidential in 1999. ^b High grade ore (48 per cent Mn) to Japan for Japanese fiscal year commencing 1 April. ^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.

303 World production of manganese ore, by country

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	1 501	1 899	1 658	1 961	2 189	2 564	3 431	3 136
Brazil	1 940	1 656	1 925	1 970	2 529	2 544	3 143	3 143
China	5 300	5 300	5 300	5 300	5 300	5 300	5 300	5 300
Gabon	2 092	1 908	1 743	1 791	1 856	2 000	2 460	2 859
Georgia	50	55	63	98	103	174	219	220
Ghana	385	639	896	1 077	1 136	1 509	1 594	1 715
India	1 583	1 490	1 604	1 483	1 625	2 018	2 149	2 144
Kazakhstan	634	944	1 202	1 385	1 835	2 361	2 400	2 400
Mexico	533	445	411	259	172	294	357	377
South Africa	3 051	3 050	3 635	3 271	3 082	3 799	4 207	4 612
Ukraine	2 200	1 985	2 741	2 740	2 762	2 523	2 278	2 226
Others	377	324	257	459	742	299	330	544
Total	19 645	19 695	21 436	21 795	23 331	25 385	27 865	29 231

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.

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Summary of Australian statistics for nickel

	Production a				Exports		Imports	Price g
	Smelter and refinery b							
	Mine	Intermediate	Refined	Refined	volume f	value s		
	kt	kt	class 2 d	class 1 e	kt	\$m	\$m	A\$/t
1968	4.6	0.0	0.0	0.0	na	na	9.9	1 852.7
1969	11.2	0.0	0.0	0.0	na	na	9.8	2 109.8
1970	29.8	0.0	0.0	9.0	na	na	23.3	2 541.1
1971	35.5	0.0	0.0	15.0	na	na	11.9	2 585.0
1972	35.5	0.0	0.0	16.5	na	na	8.3	2 583.2
1973	40.1	5.8	0.0	19.8	na	na	13.3	2 372.9
1974	45.9	14.6	0.0	20.5	na	96.0	12.8	2 657.3
1975	75.8	32.2	10.3	22.6	na	172.6	12.1	3 487.9
1976	82.5	32.0	18.0	21.8	na	260.9	18.5	4 059.1
1977	85.9	33.2	17.4	16.7	na	252.5	21.0	4 691.4
1978	82.4	32.7	18.7	18.6	na	222.1	25.1	4 026.3
1979	69.7	38.7	17.4	21.9	na	327.2	21.6	5 354.5
1980	74.3	32.5	17.9	17.4	na	427.0	30.4	5 730.8
1981	74.3	32.9	19.3	23.2	na	388.1	21.4	5 197.2
1982	87.6	49.4	20.6	25.3	na	393.7	19.7	4 765.6
1983	76.6	49.8	12.3	29.5	na	321.6	7.2	5 199.6
1984	76.9	51.1	13.1	25.6	na	386.0	15.2	5 413.4
1985	85.8	51.6	17.9	23.0	na	498.6	17.5	7 006.6
1986	76.7	49.1	20.4	21.6	na	440.3	22.3	5 788.0
1987	74.6	47.8	19.9	24.6	na	390.0	24.1	6 950.4
1988	58.0	40.0	21.1	20.3	62.1	633.5	13.7	18 096.7
1989	63.1	41.6	21.9	18.3	65.0	851.7	20.2	16 825.6
1990	67.8	49.2	22.3	25.2	73.7	666.5	30.2	11 385.0
1991	67.6	54.8	24.9	27.8	82.7	682.5	37.6	10 471.4
1992	57.9	47.8	25.9	29.5	75.4	768.7	48.5	9 525.7
1993	65.4	43.9	26.0	35.4	95.3	574.3	49.4	7 847.9
1994	75.9	68.4	23.0	43.5	111.4	765.0	57.3	8 667.9
1995	102.7	75.9	18.6	58.3	122.9	1 188.6	71.8	11 097.5
1996	113.0	76.8	12.6	61.4	132.0	1 081.0	70.0	9 586.8
1997	123.9	85.8	14.8	58.9	144.4	1 094.4	66.0	9 308.9
1998	143.9	100.1	15.3	64.3	171.6	985.7	66.0	7 357.7
1999	119.0	79.7	10.2	73.4	149.9	1 117.9	60.4	9 320.5
2000	170.2	100.9	13.5	98.7	198.6	2 366.8	80.8	14 852.4
2001	197.0	96.7	11.2	116.9	207.9	2 076.2	88.1	11 482.1
2002	188.2	98.3	11.4	120.8	209.7	2 199.4	89.8	12 450.0
2003	191.2	107.5	13.6	115.8	216.0	2 686.7	92.1	14 782.6
2004	186.8	106.7	10.7	111.5	206.4	3 346.5	104.5	18 776.0
2005	189.3	114.5	8.9	113.1	218.6	3 634.8	112.2	21 932.3

^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. ^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.

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World production, consumption and prices of nickel

	Production		Stocks ^a	Consumption ^s	Price ^b
	Mine ^s	Smelter/refinery ^s			
	kt	kt	kt	kt	US\$/t
1960	361	345	na	321	1 631.0
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	850	131	834	4 910.3
1986	844	829	126	838	3 883.0
1987	889	875	92	909	4 871.3
1988	928	917	85	930	14 191.8
1989	970	935	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	154	1 016	6 926.4
1998	1 117	1 034	154	1 009	4 631.0
1999	1 058	1 028	131	1 082	6 014.8
2000	1 177	1 082	97	1 123	8 649.2
2001	1 216	1 160	100	1 104	5 943.6
2002	1 228	1 180	97	1 175	6 771.6
2003	1 275	1 192	98	1 219	9 636.5
2004	1 327	1 252	98	1 246	13 837.9
2005	1 386	1 293	112	1 243	14 749.4

^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.

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World nickel smelter/refinery production, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	53.9	53.4	50.2	52.9	55.0	54.0	54.8	55.5
South Africa ^b	36.4	36.2	36.6	33.4	32.7	37.6	41.4	42.4
Zimbabwe	17.4	17.2	13.6	19.5	22.3	16.4	13.3	13.1
Americas	264.1	238.5	252.9	274.1	290.4	281.4	313.2	308.4
Brazil	21.1	22.9	23.2	22.5	23.7	24.6	26.2	30.3
Canada	146.7	124.3	134.2	140.6	144.5	124.4	151.5	139.7
Colombia	28.1	28.3	27.7	38.4	44.0	47.9	48.8	52.8
Cuba	38.7	38.5	40.0	41.2	39.2	40.1	39.6	39.6
Dominican Republic	25.2	24.5	27.8	22.3	23.5	27.2	29.5	28.7
United States	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	0.0	0.0	0.0	9.0	15.5	17.2	17.5	17.4
Asia	175.1	187.7	221.8	213.5	220.3	238.9	249.4	269.8
China	40.1	44.8	50.9	49.5	53.5	64.7	72.6	98.0
Indonesia	8.5	9.2	10.1	10.3	8.9	8.9	7.3	6.4
Japan	126.5	133.7	160.7	153.7	157.9	165.3	169.5	165.5
Europe	417.3	419.2	403.1	445.5	433.7	451.4	468.5	485.6
Austria	1.8	1.5	1.3	1.5	1.0	1.0	1.3	0.6
Finland	46.0	52.8	54.3	54.6	55.3	51.0	49.6	40.8
France	11.8	11.7	12.3	13.0	11.4	11.1	9.6	12.7
Greece	15.0	13.0	17.5	17.7	19.2	18.0	18.1	19.2
Macedonia ^c	5.8	0.0	0.0	3.0	5.2	5.5	5.1	7.8
Norway	70.2	74.1	58.7	68.2	68.5	77.2	71.4	84.9
United Kingdom	39.1	38.1	38.0	33.8	33.8	24.2	38.6	37.1
Serbia	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Russian Federation	227.0	228.0	221.0	252.2	239.3	263.4	262.8	270.0
Ukraine	0.0	0.0	0.0	1.5	0.0	0.0	12.0	12.5
Oceania	124.1	128.9	156.1	174.0	180.7	166.5	166.3	173.8
Australia	79.6	83.6	112.2	128.1	132.0	115.8	123.2	127.1
New Caledonia (Fr)	44.5	45.3	43.9	45.9	48.7	50.7	43.0	46.7
World total	1 034.4	1 027.7	1 082.4	1 160.0	1 180.1	1 192.2	1 252.1	1 293.2

^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.

307 World nickel mine production, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	74.0	73.1	69.3	67.7	73.2	80.9	73.5	76.7
Botswana	24.8	25.8	24.4	23.9	26.7	31.0	25.2	27.7
South Africa ^b	36.4	36.2	36.6	36.4	38.8	42.1	40.5	42.4
Zimbabwe	12.7	11.1	8.3	7.4	7.8	7.8	7.8	6.6
Americas	363.1	349.5	386.9	391.5	398.8	393.7	424.8	446.8
Brazil ^c	32.5	32.5	35.6	34.2	36.8	37.8	37.8	36.0
Canada	208.2	186.2	190.7	194.1	189.3	162.8	186.5	198.4
Colombia	29.4	39.3	58.9	53.0	58.5	70.8	75.1	89.0
Cuba	67.8	67.0	71.4	76.5	75.2	78.0	78.0	77.4
Dominican Republic ^c	25.2	24.5	27.8	22.3	23.5	27.2	30.0	29.0
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	0.0	0.0	2.5	11.4	15.5	17.0	17.5	17.0
Asia	146.1	151.6	173.1	176.7	200.3	226.4	222.7	233.1
China	47.7	50.1	51.0	51.5	54.6	60.6	63.0	59.8
Indonesia	74.1	89.1	98.2	102.1	121.6	143.9	142.7	150.0
Kazakhstan	3.6	0.0	3.6	0.0	0.0	0.0	0.0	1.2
Philippines	20.7	12.4	20.2	23.1	24.1	22.0	17.0	22.2
Europe	264.9	254.7	260.2	265.8	267.5	270.7	300.8	328.3
Finland	2.0	0.7	3.3	2.7	2.5	3.4	3.4	3.4
Greece ^c	17.0	16.1	19.5	20.8	22.7	21.4	21.7	23.2
Macedonia ^d	7.2	0.0	0.0	3.0	5.2	5.5	5.3	7.8
Norway	3.0	2.9	2.3	2.8	2.1	0.3	0.4	0.3
Russian Federation	235.0	235.0	235.0	235.0	235.0	240.0	264.0	280.0
Serbia	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ukraine	0.0	0.0	0.0	1.5	0.0	0.0	6.0	6.0
Oceania	269.2	229.0	287.8	314.6	288.1	303.2	305.0	301.2
Australia	143.9	119.0	170.2	197.0	188.2	191.2	186.8	189.3
New Caledonia (Fr)	125.3	110.1	117.6	117.6	99.9	112.0	118.3	112.0
World total	1 117.3	1 057.9	1 177.3	1 216.3	1 227.9	1 274.8	1 326.8	1 386.2

^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.

308 World primary refined nickel consumption, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	31.2	33.2	32.2	31.2	35.9	45.5	45.5	32.0
South Africa	30.0	32.0	31.0	30.0	34.7	44.0	44.0	30.5
Other	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5
Americas	183.0	193.2	192.4	170.7	159.7	159.0	164.6	170.9
Brazil	15.7	19.6	21.7	21.1	23.6	25.3	23.3	22.9
Canada	11.5	15.0	15.0	14.8	10.5	10.0	8.0	7.3
Mexico	2.8	3.2	2.2	2.0	1.6	2.0	2.2	2.4
United States	150.0	152.0	150.0	129.1	120.6	117.6	128.6	135.4
Other	2.7	3.1	3.2	3.2	2.9	4.1	2.5	2.9
Asia	376.3	429.6	463.9	441.5	501.2	550.4	579.6	589.1
China	42.0	46.5	62.0	83.0	93.6	125.0	150.0	188.5
Chinese Taipei	70.0	89.0	90.0	81.0	91.0	90.9	85.0	74.0
Hong Kong, China	1.8	1.8	1.3	4.5	4.7	5.5	5.8	5.8
India	16.0	19.2	22.5	25.0	25.5	26.0	27.4	29.9
Japan	169.2	182.7	200.1	161.5	191.2	192.8	192.5	172.9
Korea, Rep. of	67.8	80.7	78.0	75.4	83.2	98.0	103.2	100.0
Thailand	1.6	2.1	2.0	2.2	2.2	2.0	2.4	2.6
Turkey	2.4	2.4	2.2	1.9	1.8	2.0	2.4	3.3
Other	5.5	5.2	5.8	7.0	8.0	8.2	10.9	12.1
Europe	416.6	423.5	432.0	458.3	476.0	461.0	454.3	449.2
Austria	3.3	3.3	4.2	5.6	4.8	5.0	5.5	6.5
Belgium-Luxembourg	30.0	28.0	28.5	28.2	32.5	39.0	40.7	44.5
Czech Republic	1.6	1.6	2.3	2.4	2.0	2.0	2.3	1.8
Finland	37.1	40.8	43.3	38.6	40.6	52.0	53.0	50.0
France	55.0	52.3	49.8	51.0	55.3	43.6	34.0	30.5
Germany	97.4	101.2	103.5	110.2	106.6	99.7	99.6	99.7
Italy	53.3	55.0	52.6	57.0	66.0	64.9	61.9	60.0
Norway	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Poland	2.5	2.5	2.3	2.4	2.4	2.0	1.9	1.8
Russian Federation	18.0	17.0	21.0	28.0	27.0	25.6	26.0	26.0
Spain	31.0	37.8	37.8	43.8	47.0	47.0	45.0	45.0
Sweden	33.9	34.6	36.8	36.6	37.9	34.8	36.0	34.5
Switzerland	1.5	1.1	0.5	0.5	0.5	0.7	0.7	0.7
Ukraine	2.7	3.6	4.5	4.8	4.8	4.5	4.1	4.6
United Kingdom	31.5	29.2	32.4	37.5	34.4	28.6	33.3	32.8
Other	16.4	13.9	10.9	10.0	12.5	10.2	8.5	9.1
Oceania	2.1	2.1	2.0	2.0	2.0	2.7	2.0	2.0
Australia	1.6	1.6	1.6	1.6	1.6	2.3	1.6	1.6
New Zealand	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
World total	1 009.2	1 081.6	1 122.6	1 103.8	1 174.8	1 218.6	1 253.0	1 243.2

^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.

309 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}
	ML	ML	ML	ML	Gm ³	Mt
1961-62	na	na	na	14 895	0.00	0
1962-63	na	na	na	16 766	0.00	0
1963-64	80	na	na	17 561	0.00	0
1964-65	347	na	na	18 665	0.00	0
1965-66	504	na	na	19 965	0.00	0
1966-67	645	na	na	22 543	0.00	0
1967-68	1 902	na	na	23 013	0.01	0
1968-69	2 236	na	na	23 897	0.06	0
1969-70	4 919	na	na	23 176	0.78	0
1970-71	15 688	241	661	13 913	1.96	0
1971-72	20 266	1 090	1 193	11 174	2.63	0
1972-73	22 464	330	1 672	10 004	3.74	0
1973-74	25 223	305	1 984	10 469	4.45	0
1974-75	25 306	234	2 000	10 171	4.88	0
1975-76	26 059	243	1 950	9 702	5.45	0
1976-77	27 128	206	2 253	10 116	6.50	0
1977-78	28 287	221	2 855	11 214	7.18	0
1978-79	28 067	371	3 031	10 407	8.01	0
1979-80	26 823	127	2 764	11 263	9.24	0
1980-81	26 077	86	2 569	11 450	10.66	0
1981-82	25 419	44	2 622	12 460	11.80	0
1982-83	24 978	61	2 334	11 780	11.92	0
1983-84	29 960	1 056	2 851	8 553	12.49	0
1984-85	34 820	5 819	2 620	7 294	13.37	0
1985-86	35 750	5 051	2 977	6 186	14.69	0
1986-87	35 431	5 702	2 675	7 724	15.08	0
1987-88	35 187	6 453	2 402	9 577	15.68	0
1988-89	32 080	4 789	2 177	12 058	16.15	0
1989-90	36 003	7 202	1 983	11 603	20.27	2.01
1990-91	35 755	8 830	1 507	13 389	21.23	3.40
1991-92	35 171	8 967	1 568	15 332	23.49	4.66
1992-93	34 776	10 098	1 483	19 421	24.61	4.98
1993-94	32 960	9 538	1 290	20 296	26.76	6.03
1994-95	35 158	11 445	1 189	20 639	29.47	7.02
1995-96	34 365	10 899	1 469	23 703	30.24	7.48
1996-97	35 302	12 401	2 421	24 768	30.66	7.49
1997-98	38 862	14 785	2 824	25 017	31.92	7.65
1998-99	32 265	14 291	2 486	29 729	32.78	7.82
1999-00	42 279	20 877	2 857	26 936	34.04	7.92
2000-01	44 397	24 044	2 785	26 489	34.82	7.53
2001-02	42 467 ^s	23 936	3 211	27 308	36.20	7.60
2002-03	39 823 ^s	20 950	3 194	27 958	37.22	7.83
2003-04	35 358 ^s	17 526	2 916	23 498	37.41	7.91
2004-05	31 939 ^s	15 731	2 844	26 054	41.68	10.59
2005-06	29 042 ^s	13 078	2 800	24 429	42.63	12.38

^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 (Gm³) 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; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

310 Summary of Australian statistics for refined petroleum products ^a

	Production	Domestic consumption ^b	Imports		Exports ^c		Bunkers ^d
	ML	ML	Volume ML	Value \$m	Volume ML	Value \$m	\$m
1960-61	14 082	13 614	2 005	na	2 106	na	na
1961-62	14 931	14 320	1 869	na	2 420	na	na
1962-63	16 522	15 490	2 148	na	2 809	na	na
1963-64	17 514	17 479	2 066	na	2 285	na	na
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	1 816	4 564	1 844	899
2001-02	46 677	51 260	4 655	1 625	3 409	1 234	760
2002-03	46 723	51 906	5 497	2 050	3 140	1 198	775
2003-04	43 486	52 906	10 542	3 595	2 474	918	696
2004-05	44 555	54 017	11 188	5 123	1 847	844	951
2005-06	40 679	55 151	15 133	8 769	2 082	1 195	1 322

^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; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*).

311 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
1967-68	1 902	na	1 902	na	0.01	0.00
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	32 670	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	26 610 s	8 532 s	35 142 s	4 681	36.81	0.41
2003-04	23 204 s	7 515 s	30 719 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	17 251 s	7 069 s	24 320 s	4 722	42.18	0.46

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; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

312 Australian production of refined petroleum products

	1997-98 ML	1998-99 ML	1999-00 ML	2000-01 ML	2001-02 ML	2002-03 ML	2003-04 ML	2004-05 ML	2005-06 ML
Automotive gasoline	18 589	18 705	18 652	17 887	18 000	17 984	17 375	17 913	16 528
Automotive diesel oil	13 183	12 968	12 737	13 212	13 064	13 335	12 544	12 822	10 154
Aviation turbine fuel	5 423	5 218	5 539	5 836	5 390	5 149	4 964	5 325	5 216
Fuel oil	1 662	1 634	1 839	1 951	1 684	1 441	1 105	1 092	1 048
Liquefied petroleum gas ^a	1 518	1 691	1 674	1 795	1 718	1 657	1 062	995	1 125
Industrial and marine diesel fuel	48	32	60	98	105	117	84	22	31
Bitumen	689	695	719	693	725	751	678	1 091	831
Lubricants	771	680	649	641	564	521	259	202	163
Aviation gasoline	152	174	158	137	147	134	114	144	119
Heating oil	216	167	217	194	192	195	118	106	102
Other ^a	5 147	5 065	5 387	5 245	5 088	5 439	5 183	4 844	5 363
Total products	47 400	47 030	47 630	47 690	46 677	46 723	43 486	44 555	40 679

^a Includes byproducts of petrochemical and downstream processing.

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

313 Australian consumption of petroleum

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Crude oil and other refinery feedstock									
Stock	days ^a	22	23	24	29	26	26	23	23
Refinery input	ML	44 401	44 500	44 708	42 911	44 548	39 949	40 334	36 895
Refined products									
Automotive gasoline	ML	18 230	18 477	18 168	18 669	18 872	19 962	19 876	19 048
Automotive diesel oil	ML	12 825	13 245	12 952	13 441	13 888	14 462	15 185	15 804
Aviation turbine fuel	ML	4 791	5 023	5 319	4 603	4 250	4 329	4 730	5 359
Fuel oil	ML	1 861	2 200	1 705	1 777	1 423	1 466	1 595	1 586
Liquefied petroleum gas	ML	4 620	4 650	4 746	4 009	4 327	4 253	3 862	4 643 ^s
Industrial and marine diesel fuel	ML	14	18	22	46	18	17	15	19
Bitumen	ML	716	781	716	755	671	742	812	805
Lubricants	ML	502	526	532	555	569	618	470	451
Aviation gasoline	ML	106	103	101	97	90	90	91	86
Heating oil	ML	77	81	63	50	48	46	34	25
Other ^b	ML	5 247	5 429	4 284	5 132 ^s	5 333 ^s	5 835 ^s	7 098 ^s	7 257 ^s
Total products	ML	48 990	50 533	48 608	49 134	49 489	51 819	53 767	55 083

^a Days of forward consumption. ^b Includes petrochemical and noncommercial use of all products plus refinery fuel, but petroleum products produced from the conversion of other petroleum products have been netted off. ^s ABARE estimate

Sources: ABARE; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

314 Australian production of primary petroleum, by basin

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	ML	ML	ML	ML	ML	ML	ML	ML
Crude oil								
Adavale	0	0	0	0	2	0	0	0
Amadeus	107	91	80	72	59	136 s	132 s	53
Bonaparte	663	6 177	9 602 s	5 987 s	4 923 s	3 037 s	1 868 s	1 403
Bowen-Surat	64	35	45	39	27	28	24	23
Canning	8	5	6	4	4	3	2	2
Carnarvon								
Barrow Island	711	683	646	580	547	502	448	390
North West Shelf	1 883	5 495	7 055	9 315 s	8 843 s	8 564 s	7 859 s	4 524 s
Other	6 261	5 191	5 739	4 855	4 284	3 688 s	3 831 s	5 854 s
Cooper-Eromanga								
Queensland	585	512	499 s	432	450	390	529 s	432
South Australia	559	422	439	490	413	447	401	489
Gippsland	9 088	10 987	8 560 s	8 164 s	6 939 s	6 019 s	4 647 s	3 686
Otway	0	0	0	0	0	0	0	0
Perth	9	6	1	5	119	387 s	517 s	395
Total	19 938	29 604	32 671	29 945	26 610	23 204	20 259	17 251
Condensate								
Adavale	0	0	0	0	1	0	0	0
Amadeus	0	0	0	0	0	0	0	0
Bonaparte	0	0	0	0	0	46 s	307 s	394 s
Bowen-Surat	18	18	18	13	12	15	23	20
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	202	300	365	366	349	203	120	0
North West Shelf	6 346	6 038	5 199	5 869 s	6 686 s	5 840 s	5 041 s	5 265 s
Other	71	205	118	110	101	142	250	202
Cooper-Eromanga								
Queensland	181	198	151 s	216 s	239	242	270	205
South Australia	490	447	467	378	349	176	221	208
Gippsland	644	652	832 s	898 s	769 s	836 s	813 s	770
Otway	7	2	17 s	23 s	23 s	13 s	7	3
Perth	1	2	2	1	2	1	1	2
Total	7 960	7 861	7 169	7 875	8 532	7 515	7 052	7 069
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	25	20	22	18	18	20	24	23
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	0	0	0	0	0	0	0	0
North West Shelf	1 355	1 564	1 493	2 028	1 911	1 817	1 963	2 160
Other	0	0	0	0	0	0	0	0
Cooper-Eromanga								
Queensland	0	0	0	0	0	0	0	0
South Australia	890	895	816	768	783	827	663	597
Gippsland	1 634	1 889	1 725	1 799	1 970	1 976	1 977	1 942
Otway	0	0	0	0	0	0	0	0
Perth	0	0	0	0	0	0	0	0
Total	3 904	4 368	4 056	4 612	4 682	4 639	4 628	4 722

Continued

314 Australian production of primary petroleum, by basin *continued*

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	GL	GL	GL	GL	GL	GL	GL	GL
Naturally occurring ethane and natural gas ^a								
Adavale	28	21	19	15	9	8	10	12
Amadeus	459	476	459	471	452	424	479	494
Bonaparte	0	0	0	0	0	0	0	0
Bowen-Surat	682	713	614	518	641	613	697	639
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	606	942	929	452	1 116	1 023	545	1 172
North West Shelf	16 343	16 357	16 042	16 561	17 753	17 827	21 437	22 947
Other	1 171	1 027	1 384	1 359	1 113	1 533	2 364	1 430
Cooper-Eromanga								
Queensland	0	0	0	0	0	19	0	0
South Australia	6 274	6 456	5 764	6 308	5 753	4 288	4 149	4 004
Gippsland	5 308	5 329	6 304	6 355	6 432	7 487	7 477	7 274
Otway	157	209	203	316	100	260	281	161
Perth	215	263	286	188	197	178	236	338
Total	31 243	31 792	32 004	32 543	33 568	33 659	37 674	38 470

^a Does not include methane or ethane produced from other than natural gas fields or non commercial production. ^s ABARE estimate.
Sources: ABARE, *Australian Mineral Statistics*, Canberra; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

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Volume of Australian trade in petroleum

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Exports									
Automotive gasoline	ML	1 533	1 371	1 288	1 186	1 058	774	774	714
Diesel fuel	ML	1 231	1 070	1 276	948	1 052	872	367	419
Aviation turbine fuel	ML	547	579	755	549	645	528	240	127
Fuel oil	ML	253	585	724	293	95	81	201	490
Aviation gasoline	ML	74	79	28	71	52	36	38	85
Kerosene	ML	31	10	10	2	0	0	0	0
Lubricants	ML	319	258	278	163	163	122	156	179
Other	ML	249	164	203	197	75	60	70	69
Total refined products	ML	4 236	4 116	4 564	3 409	3 140	2 474	1 847	2 082
Liquefied petroleum gas a	ML	2 486	2 857	2 785	3 211	3 194	2 916	2 844	2 800
Bunkers b	ML	2 305	2 314	2 291	2 267	2 238	2 216	2 207	2 163
Crude oil and other refinery feedstock	ML	14 291	20 877	24 044	23 936	20 950	17 526	15 731	13 078
Liquefied natural gas cs	MT	7.819	7.923	7.530	7.600	7.826	7.914	10.589	12.375
Imports									
Automotive gasoline	ML	890	1 065	1 189	1 436	1 673	3 242	3 131	3 697
Diesel fuel	ML	1 435	1 400	1 129	1 280	1 627	3 374	3 944	6 122
Aviation turbine fuel	ML	140	171	387	225	429	681	983	817
Fuel oil	ML	596	799	814	557	611	1 285	1 281	1 418
Lubricants	ML	57	82	33	57	216	195	327	370
Liquefied petroleum gas	ML	496	519	633	588	299	785	540	598
Other	ML	514	597	561	511	643	979	981	2 110
Total refined products	ML	4 129	4 632	4 746	4 655	5 497	10 542	11 188	15 133
Crude oil and other refinery feedstock	ML	29 729	26 936	26 489	27 308	27 958	23 498	26 054	24 429

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; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

316 Value of Australian trade in petroleum

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Exports								
Automotive gasoline	262	366	500	389	367	280	339	419
Diesel fuel	198	268	498	308	366	292	166	238
Aviation turbine fuel	93	169	301	184	228	172	108	80
Fuel oil	28	116	183	70	29	21	51	215
Aviation gasoline	24	34	17	33	29	20	26	54
Kerosene	5	2	5	1	0	0	0	0
Lubricants	196	184	238	164	141	100	112	139
Other products	60	65	103	85	39	33	41	52
Total refined products	866	1 202	1 844	1 234	1 198	918	844	1 195
Liquefied petroleum gas	297	648	830	721	855	647	804	1 002
Bunkers ^a	397	666	899	760	775	696	951	1 322
Crude oil and other refinery feedstock	1 881	5 292	8 137	6 390	6 402	5 055	6 330	6 667
Liquefied natural gas	1 425	1 949	2 671	2 613	2 607	2 174	3 199	4 416
Imports								
Automotive gasoline	134	321	432	448	569	1 168	1 463	2 348
Diesel fuel	225	377	438	414	561	1 134	1 933	4 076
Aviation turbine fuel	24	48	154	68	146	220	483	529
Fuel oil	59	150	222	143	180	313	364	569
Lubricants	107	111	60	126	190	206	288	418
Liquefied petroleum gas	64	108	160	116	76	166	143	194
Other products	255	262	350	310	328	388	448	636
Total refined products	868	1 375	1 816	1 625	2 050	3 595	5 123	8 769
Crude oil and other refinery feedstock	3 794	6 313	8 753	7 458	8 610	6 594	9 995	12 839

^a Ships and aircraft stores.

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

317 Australian exports of petroleum, by destination ^a

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity									
Crude oil and other refinery feedstock									
China	ML	758	1 675	912	1 160	1 699	2 389	732	404
Chinese Taipei	ML	2 200	2 561	3 712	1 920	580	125	916	346
Japan	ML	2 954	3 528	4 068	3 168	3 402	2 079	1 927	2 201
Korea, Rep. of	ML	2 005	4 338	4 358	5 521	4 012	3 778	2 787	2 725
New Zealand	ML	779	556	613	1 426	784	722	1 425	465
Singapore	ML	1 691	3 831	6 079	6 215	6 567	3 948	2 861	3 161
United States	ML	2 768	3 462	2 962	2 674	2 944	1 808	1 154	297
Other	ML	1 135	927	1 339	1 851	962	2 677	3 929	3 478
Total	ML	14 291	20 877	24 044	23 936	20 950	17 526	15 731	13 078
Liquefied petroleum gas									
China	ML	778	606	416	441	154	696	598	393
Japan	ML	1 167	1 841	2 241	2 575	2 783	2 109	2 081	2 142
Korea, Rep. of	ML	215	188	61	127	234	0	81	0
Other	ML	326	222	67	68	23	111	84	264
Total ^b	ML	2 486	2 857	2 785	3 211	3 194	2 916	2 844	2 800
Refined products									
Fiji	ML	576	624	748	473	384	122	7	62
Japan	ML	180	67	18	71	26	29	53	74
New Zealand	ML	1 305	1 245	1 086	1 247	1 250	828	1 113	716
Singapore	ML	319	561	697	367	246	127	471	771
Other Pacific	ML	1 627	1 296	1 564	921	861	818	37	135
United States	ML	179	254	328	153	99	123	0	37
Other	ML	50	70	123	177	273	427	164	288
Total	ML	4 236	4 116	4 564	3 409	3 140	2 474	1 847	2 082
Value ^c									
Crude oil and other refinery feedstock									
China	\$m	106	431	317	316	528	671	309	219
Chinese Taipei	\$m	287	629	1 284	508	179	33	372	172
Japan	\$m	400	899	1 394	854	1 058	582	782	1 111
Korea, Rep. of	\$m	253	1 117	1 486	1 490	1 217	1 057	1 091	1 366
New Zealand	\$m	115	142	213	406	256	238	602	256
Singapore	\$m	211	943	1 973	1 597	1 956	1 118	1 080	1 510
United States	\$m	367	892	1 012	693	883	527	473	149
Other	\$m	141	239	458	525	324	828	1 620	1 884
Total	\$m	1 881	5 292	8 137	6 390	6 402	5 055	6 330	6 667
Liquefied petroleum gas									
China	\$m	97	131	125	96	36	159	169	129
Japan	\$m	136	432	667	580	755	466	595	766
Korea, Rep. of	\$m	26	42	19	30	59	0	18	0
Other	\$m	37	43	19	15	6	22	21	107
Total ^b	\$m	297	648	830	721	855	647	804	1 002
Refined products									
Fiji	\$m	99	165	293	161	140	43	8	43
Japan	\$m	37	23	9	25	14	13	22	40
New Zealand	\$m	262	379	461	437	460	310	516	463
Singapore	\$m	58	117	201	112	95	41	170	375
Other Pacific	\$m	348	414	669	367	349	290	41	107
United States	\$m	39	72	143	56	39	47	0	20
Other	\$m	24	31	68	76	101	174	86	147
Total	\$m	866	1 202	1 844	1 234	1 198	918	844	1 195

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

318 Australian imports of petroleum, by source

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	9 648	4 176	3 788	6 795	5 380	4 012	3 328	3 929
Malaysia	ML	1 576	2 811	2 249	2 290	2 299	4 073	4 761	3 981
New Zealand	ML	1 792	1 251	1 104	1 089	990	708	663	644
Other Middle East	ML	1 751	985	453	42	334	42	158	199
Papua New Guinea	ML	3 228	3 549	2 772	2 208	1 683	1 189	1 717	2 386
Qatar	ML	211	470	439	646	191	0	77	0
Saudi Arabia	ML	2 828	3 294	4 016	3 004	3 680	1 517	3 101	1 602
Singapore	ML	257	61	287	554	719	596	652	830
United Arab Emirates	ML	1 197	1 642	3 170	2 305	2 294	2 207	1 917	864
Viet Nam	ML	6 086	6 157	6 282	5 652	6 699	5 778	6 560	6 708
Other	ML	1 156	2 538	1 930	2 724	3 690	3 375	3 122	3 286
Total	ML	29 729	26 936	26 489	27 308	27 958	23 498	26 054	24 429
Refined products									
Indonesia	ML	56	41	121	80	57	281	162	100
Korea, Rep. of	ML	139	406	144	289	144	280	237	1 002
Malaysia	ML	42	69	8	27	45	97	93	221
Middle East	ML	666	555	846	474	140	1 036	588	689
New Zealand	ML	51	83	20	42	17	3	4	84
Singapore	ML	1 726	1 730	1 692	2 110	2 832	5 904	7 395	8 463
United States	ML	365	379	401	462	407	434	423	455
Other ^a	ML	1 084	1 368	1 549	1 171	1 855	3 370	2 334	3 024
Total	ML	4 129	4 632	4 781	4 655	5 497	11 405	11 236	14 038
Value									
Crude oil and other refinery feedstock									
Indonesia	\$m	1 266	942	1 295	1 846	1 671	1 141	1 335	2 108
Malaysia	\$m	214	666	770	647	735	1 199	1 924	2 183
New Zealand	\$m	234	307	379	309	316	212	275	354
Other Middle East	\$m	214	227	138	12	101	11	59	103
Papua New Guinea	\$m	435	867	974	601	527	347	711	1 283
Qatar	\$m	27	90	141	191	58	0	24	0
Saudi Arabia	\$m	317	751	1 201	758	1 074	408	1 114	775
Singapore	\$m	32	13	98	149	224	152	201	373
United Arab Emirates	\$m	146	363	1 041	674	664	584	659	446
Viet Nam	\$m	765	1 454	2 115	1 528	2 095	1 584	2 517	3 496
Other	\$m	143	633	601	743	1 145	956	1 174	1 717
Total	\$m	3 794	6 313	8 753	7 458	8 610	6 594	9 995	12 839
Refined products									
Indonesia	\$m	11	11	41	23	17	92	75	59
Korea, Rep. of	\$m	23	121	64	101	56	108	126	642
Malaysia	\$m	11	18	3	11	18	36	49	134
Middle East	\$m	91	112	243	94	39	260	165	256
New Zealand	\$m	7	19	8	12	6	3	4	37
Singapore	\$m	281	481	655	684	1 000	2 061	3 532	5 546
United States	\$m	251	240	255	321	277	236	250	299
Other ^a	\$m	194	374	547	379	637	799	922	1 796
Total	\$m	868	1 375	1 816	1 625	2 050	3 595	5 123	8 769

^a Includes confidential imports of refined products. ^s ABARE estimate.

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

319 World crude oil supply and demand ^a

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Supply									
OPEC ^b	mbd	30.8	29.3	30.7	30.2	28.6	30.7	32.8	34.2
Non-OPEC									
Asia Pacific	mbd	3.0	3.0	3.2	3.2	3.1	3.3	3.3	3.3
China	mbd	3.2	3.2	3.2	3.3	3.4	3.4	3.5	3.6
Europe	mbd	8.1	8.3	8.4	8.4	8.5	8.3	8.3	7.9
Mexico	mbd	3.5	3.4	3.5	3.6	3.6	3.8	3.8	3.8
Middle East Africa	mbd	4.6	4.7	4.8	4.9	5.1	5.0	5.3	5.6
North America	mbd	11.0	10.7	10.8	10.9	11.0	10.8	10.8	10.4
Russian Federation	mbd	6.1	6.2	6.5	7.0	7.7	8.5	9.2	9.5
South America	mbd	3.6	3.8	3.8	3.8	3.9	4.0	4.1	4.3
Total ^c	mbd	75.5	74.2	76.7	76.9	76.6	79.7	83.0	84.5
Demand									
Africa	mbd	2.4	2.4	2.4	2.5	2.7	2.7	2.8	2.9
China	mbd	4.2	4.5	4.8	4.7	5.0	5.6	6.4	6.6
Japan and Korea, Rep. of	mbd	7.4	7.6	7.6	7.5	7.6	7.8	7.5	7.5
Latin America	mbd	6.7	6.8	6.9	6.9	6.8	6.6	7.0	7.2
Middle East	mbd	4.2	4.5	4.7	4.9	5.4	5.4	5.8	6.1
North America	mbd	21.2	21.9	22.1	21.9	22.2	22.6	23.4	23.4
Russian Federation	mbd	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6
Western Europe ⁴ ^d	mbd	8.7	8.5	8.4	8.4	8.3	8.3	8.3	8.2
Other Asia Pacific	mbd	7.7	8.0	8.3	8.4	8.9	9.1	9.7	9.9
Other Europe	mbd	9.0	8.9	8.6	9.1	8.7	8.7	8.9	9.2
Total	mbd	73.8	75.4	76.2	76.8	78.0	79.3	82.4	83.6
OECD stocks ^e	days	56	51	52	54	50	50	51	52

^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.

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Prices for crude oil, by origin ^a

	World trade weighted ^b US\$/bbl	Dubai ^c US\$/bbl	Brent ^d US\$/bbl	WTI ^e US\$/bbl	Gippsland ^f US\$/bbl	Tapis ^g US\$/bbl
1988 quarter						
March	15.20	14.66	15.53	16.68	na	na
June	15	14.55	15.90	17.52	na	na
September	13.34	12.09	13.78	14.54	na	na
December	11.72	11.09	13.45	14.70	na	na
1989 quarter						
March	15.49	15.00	17.39	18.46	na	na
June	17.33	15.72	18.20	20.25	na	na
September	16.26	15.32	17.54	19.85	na	na
December	17.42	16.18	19.04	20.02	na	na
1990 quarter						
March	18.14	16.63	19.76	21.75	na	na
June	14.43	14.01	16.35	17.84	na	na
September	24.12	25.58	26.64	26.57	na	na
December	29.15	27.53	32.27	31.88	na	na
1991 quarter						
March	17.98	15.85	20.37	21.12	na	na
June	16.56	15.57	18.93	20.86	na	na
September	17.61	16.91	19.91	21.66	na	na
December	18.57	17.54	20.48	21.75	na	na
1992 quarter						
March	16.37	15.55	17.89	18.86	na	na
June	18.49	17.94	20.15	21.17	na	na
September	19.04	18.42	20.27	21.33	na	na
December	18.08	17.26	19.20	20.46	na	na
1993 quarter						
March	16.87	15.84	18.29	19.83	na	na
June	16.95	15.93	18.16	19.74	na	na
September	15.16	14.32	16.46	17.63	na	na
December	14.02	13.54	14.86	16.83	na	na
1994 quarter						
March	13.34	12.75	14.00	14.83	na	na
June	15.28	14.74	16.17	17.81	na	na
September	16.45	15.85	16.95	18.50	na	na
December	16.15	15.63	16.57	17.66	na	na
1995 quarter						
March	16.90	16.34	17.04	18.40	na	na
June	17.80	16.96	18.12	19.38	na	na
September	15.98	15.33	16.15	17.87	na	na
December	16.55	15.87	17.03	18.17	na	na
1996 quarter						
March	18.13	16.49	18.64	19.78	na	na
June	19.09	17.24	19.24	21.72	na	na
September	20.22	19.51	21.10	22.43	na	na
December	22.75	21.64	23.30	24.65	na	na
1997 quarter						
March	20.69	20.93	19.94	22.81	22.56	24.62
June	17.53	18.04	17.83	19.98	19.45	20.98
September	17.59	17.73	18.73	19.80	18.35	20.08
December	17.80	17.97	18.93	19.92	19.43	20.97

Continued

320 Prices for crude oil, by origin ^a continued

	World trade weighted ^b US\$/bbl	Dubai ^c US\$/bbl	Brent ^d US\$/bbl	WTI ^e US\$/bbl	Gippsland ^f US\$/bbl	Tapis ^g US\$/bbl
1998 quarter						
March	12.78	12.59	14.54	16.01	14.35	16.70
June	11.95	12.30	13.86	14.72	13.96	14.44
September	11.87	11.69	12.75	13.59	12.99	12.72
December	11.11	11.56	11.73	13.00	12.20	13.47
1999 quarter						
March	10.93	11.13	11.53	13.11	11.98	11.63
June	15.33	15.28	15.85	17.67	16.15	14.50
September	20.10	19.68	20.89	21.63	21.19	19.69
December	23.46	23.55	24.51	26.72	24.29	23.89
2000 quarter						
March	26.33	25.57	26.72	29.05	26.75	26.52
June	26.31	24.17	25.29	27.33	27.79	27.16
September	28.79	25.72	26.95	28.97	31.82	31.36
December	28.58	28.56	30.77	32.28	31.10	29.77
2001 quarter						
March	24.33	23.63	26.14	28.60	26.81	27.87
June	25.57	25.15	27.28	27.93	28.18	27.89
September	24.24	24.16	25.40	26.78	25.26	26.46
December	18.40	18.52	19.40	20.50	20.26	23.24
2002 quarter						
March	19.78	20.32	21.29	21.82	21.04	21.22
June	23.95	24.33	25.06	26.29	25.49	25.61
September	25.54	25.49	26.81	28.26	26.98	27.24
December	25.41	25.03	26.76	28.18	27.99	28.28
2003 quarter						
March	29.71	28.62	31.58	34.17	32.34	32.46
June	24.37	24.47	26.14	29.06	27.04	27.23
September	27.25	26.88	28.87	31.07	29.19	29.53
December	27.67	27.22	29.38	30.44	30.92	31.23
2004 quarter						
March	29.60	29.80	31.98	35.17	34.38	34.50
June	32.78	33.49	35.46	38.35	37.45	37.54
September	37.17	36.53	41.64	43.91	44.51	44.63
December	38.74	36.38	44.14	48.30	45.52	47.12
2005 quarter						
March	42.34	41.84	47.60	49.71	50.17	49.73
June	47.13	48.15	51.58	53.16	53.23	55.23
September	56.50	55.92	61.55	63.14	62.19	64.72
December	52.33	53.45	56.94	60.04	58.90	60.84
2006 quarter						
March	56.28	58.48	61.75	63.27	65.42	67.49
June	63.87	65.35	69.53	70.41	71.90	73.77

^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; Reuterslink; Tokyo Commodity Exchange.

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Summary of Australian statistics for salt

	Production kt	Volume kt	Exports	
			Value \$m	Unit value c \$/t
1960	471	19	0.3	15.79
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	12 444 d	11 488	228.3	19.87

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.

322 Australian supply and disposal of salt

	Unit	1999	2000	2001	2002	2003	2004	2005
Production								
Queensland	kt	249	137	150	217	230	143	210
South Australia	kt	587	1 004	693	577	560	556	620
Western Australia ^a	kt	9 052	7 706	8 410	9 167	9 736	10 388	11 549
Total	kt	9 888	8 847	9 254	9 961	10 526	11 088	12 444
Exports (all types)								
Total	kt	8 418	8 257	8 817	9 504	10 114	11 181	11 488
	\$m	214	222	267	260	201	195	228
Imports								
Common salt	t	14 070	14 988	14 869	17 285	15 157	16 578	15 369
	\$'000	3 327	3 447	3 591	4 445	4 540	5 280	5 762

^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.

323 World production of salt, by country

	1998	1999	2000	2001	2002	2003	2004	2005
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Argentina	0.8	1.3	1.3	1.3	1.1	1.7	1.4	na
Australia	9.0	9.9	8.8	9.3	10.0	10.5	11.1	12.4
Brazil	6.8	6.0	6.1	5.6	6.1	6.6	6.6	6.1
Canada	13.3	12.7	12.0	13.7	12.3	14.0	14.1	13.3
Chile	6.2	6.1	5.1	6.0	3.5	6.2	4.9	5.0
China ^a	22.4	28.1	35.2	34.5	36.0	34.4	37.1	38.0
Egypt	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
France	7.0	7.0	6.6	7.6	6.8	7.4	7.6	7.0
Germany	15.7	15.7	12.6	12.7	13.7	14.0	15.5	18.7
India	12.0	14.5	15.7	14.3	17.9	14.9	14.8	15.5
Iran	1.9	1.6	1.3	1.5	1.5	1.6	1.8	1.6
Italy	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Japan	1.3	1.3	1.4	1.4	1.3	1.3	1.2	na
Mexico	8.4	8.2	8.9	8.5	7.8	7.5	8.6	8.2
Netherlands ^b	5.5	5.0	5.6	5.7	5.8	6.0	5.9	5.0
Poland	4.0	4.2	3.5	3.5	3.6	3.6	4.0	na
Romania	2.2	2.2	2.3	2.2	2.3	2.4	2.4	2.6
Russian Federation	2.2	3.2	3.2	2.8	2.8	2.8	2.8	2.8
Spain	3.5	3.2	3.9	3.8	3.9	4.0	3.9	3.2
Turkey	2.2	2.1	2.1	1.8	2.2	2.2	2.3	2.2
Ukraine	2.5	2.2	2.3	2.3	2.3	2.9	3.3	2.5
United Kingdom	6.6	5.8	5.8	6.0	5.7	5.9	6.2	5.8
United States ^c	41.3	45.0	43.2	42.2	40.3	43.7	46.4	45.9
Other	19.2	18.7	18.6	19.6	20.6	21.3	22.3	10.6
Total	200.0	210.0	211.4	212.3	213.3	220.8	230.3	210.0

^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.

324 Summary of Australian statistics for silica

	Production	Exports ^a		Imports	
	Volume kt	Volume kt	Value \$'000	Volume t	Value \$'000
1960	213	na	na	96	20
1961	218	na	na	49	6
1962	234	na	na	24	10
1963	247	na	na	46	38
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	1 447	27 460	811	483
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	4 181	2 687	62 290	3 477	1 572
2004-05	3 670	1 844	52 643	2 708	1 375
2005-06	na	1 839	59 009	2 325	1 360

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.

325 Australian production of silica, by state

	New South Wales kt	Victoria kt	Queensland kt	Western Australia kt	South Australia kt	Tasmania kt	Australia kt
1960	168.1	na	16.1	8.8	14.8	5.3	213.2 a
1961	153.3	na	29.7	8.3	23.1	1.4	218.0 a
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	158.1	476.6	2 510.4	644.2	239.1	153.0	4 181.4
2004-05	250.4	564.1	1 902.7	700.7	252.3	0.0	3 670.3

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.

326 Australian imports of silica based products

	Silicon		Ferrosilicon		Ferrosilicomanganese		Piezoelectric crystals
	Volume t	Value \$'000	Volume t	Value \$'000	Volume t	Value \$'000	Value \$'000
1960	na	188	3 968	na	na	na	na
1961	na	210	8 308	1 217	na	na	na
1962	797	168	6 307	1 004	na	na	na
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	1 391	4 607	18 597	19 732	80	128	3 077
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

^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.

327 Summary of Australian statistics for silver

	Production		Exports ^a		Price ^b
	Mine	Refinery	Volume	Value	
	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	727	528	170	308.28

^a Refined silver only. ^b Pasmenco 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.

328 Australian supply and disposal of silver

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Production									
Mine									
New South Wales	t	151	147	146	133	88	82	92	101
Queensland	t	985	1 187	1 576	1 545	1 760	1 582	1 914	2 065
Western Australia	t	99	133	137	107	68	70	51	88
South Australia	t	15	25	34	34	26	20	34	38
Tasmania	t	147	171	118	104	78	67	89	82
Northern Territory	t	76	54	47	48	50	46	45	43
Total s	t	1 473	1 715	2 059	1 970	2 070	1 868	2 224	2 417
Refinery	t	292	437	404	584	644	649	650	727
Exports									
Refined silver									
India	t	54	140	131	190	192	124	92	66
Japan	t	131	162	185	178	143	204	267	216
Korea, Rep. of	t	19	39	53	42	34	34	37	60
Singapore	t	40	1	17	72	5	9	20	20
United Kingdom	t	67	10	0	0	42	0	0	50
Other	t	54	76	42	41	125	62	59	116
Total	t	365	428	427	524	540	432	477	528
	\$m	123	117	138	159	154	109	150	170
Silver content of lead bullion	t	405	419	332	441	455	402	453	498
Prices									
World	US\$/troy oz	553.74	524.97	499.91	434.98	460.04	487.65	664.98	731.23
Australia c	A\$/kg	291.56	268.62	285.31	287.72	290.78	258.89	308.13	308.28

a Refined bullion only. **b** Includes refined bullion, powder, unwrought silver and semimanufactured forms. **c** Pasmenco Metals, fob/fot Port Pirie.

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.

329 World mine production of silver

	1997	1998	1999	2000	2001	2002	2003	2004	2005
	†	†	†	†	†	†	†	†	†
Australia ^s	1 107	1 473	1 715	2 059	1 970	2 070	1 868	2 224	2 417
Bolivia	386	404	424	434	408	450	464	413	420
Brazil	135	130	130	130	130	130	130	130	130
Canada	1 224	1 196	1 246	1 212	1 320	1 408	1 309	1 338	1 122
Chile	1 088	1 337	1 380	1 245	1 349	1 205	1 313	1 360	1 400
China	1 265	1 260	1 330	1 330	1 908	2 000	2 000	2 000	2 000
Indonesia	279	349	292	335	348	289	377	377	377
Japan	87	95	94	104	80	81	79	76	54
Kazakhstan	389	536	816	816	943	856	805	690	804
Korea, Dem. Rep. of	200	200	200	200	50	50	50	50	50
Mexico	2 679	2 688	2 483	2 483	2 760	2 749	2 551	2 531	2 870
Morocco	262	307	270	290	240	277	200	200	200
Peru	2 059	2 004	2 231	2 438	2 571	2 870	2 921	3 060	3 193
Poland	1 038	1 097	1 093	1 088	1 231	1 342	1 332	1 330	1 263
Russian Federation	250	240	240	240	400	400	400	400	400
South Africa	153	145	152	144	112	111	87	71	88
Spain	66	66	66	66	66	13	2	4	4
Sweden	283	280	284	304	285	294	307	320	310
United States	2 182	2 060	1 952	2 017	1 606	1 419	1 236	1 246	1 225
Uzbekistan	150	150	150	150	218	157	150	150	150
Other	677	663	658	660	819	876	889	756	867
Total ^a	15 959	16 677	17 208	17 747	18 815	19 047	18 470	18 725	19 344

^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.

330 Summary of Australian statistics for talc

	Production ^b	Exports ^a			Imports ^a	
		Volume	Value	Unit value	Volume	Value
	t	t	\$'000	\$/t	t	\$'000
1960	15 794	3 968	129	32.56	504	24
1961	13 664	4 258	149	35.05	1 489	45
1962	13 754	5 068	164	32.34	2 156	72
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	714 ^c	251 ^c	351.70	384	201
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	151 582	129 756	19 104	147.23	1 853	827
2005-06	na	125 730	17 247	137.17	3 538	1 556

^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.

331 Australian production of talc and pyrophyllite, by state

	Talc				Pyrophyllite
	New South Wales	South Australia	Western Australia	Australia	New South Wales
	†	†	†	†	†
1960	1 154	9 082	5 558	15 794	509
1961	838	7 594	5 232	13 664	1 309
1962	732	7 962	5 061	13 754	1 303
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	143 663	151 582	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.

332 Australian exports of talc, by destination ^a

	Belgium	Japan	Nether- lands	New Zealand	Korea, Rep. of	United States	Other	Total	
	t	t	t	t	t	t	t	Volume t	Value \$'000
1960	na	na	na	1 161	na	na	na	3 968	129
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	427	3	0	284	714	251
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

^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.

333 Australian imports of talc, by source ^a

	Norway	United Kingdom	United States	Other	Total	
					Volume	Value
	†	†	†	†	†	\$'000
1960	na	na	na	na	504	24
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	8	20	119	237	384	201
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

^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.

334 World mine production of talc, by country ^a

	Australia kt	Brazil kt	China ^b kt	Japan kt	Korea, Rep. of kt	United States kt	Other kt	Total 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	152	600	3 000	642	930	842	2 194	8 360

^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.

335 Summary of Australian statistics for tin

	Production		Exports		Price ^c A\$/t
	Mine ^a t	Refinery t	Volume ^b t	Value \$m	
1960	2 202	2 254	0	0	2 196.0
1961	2 745	2 546	0	0	2 450.0
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	2 819	594	2 573	16	9 687.4

^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.

336 Australian supply and disposal of tin

	Unit	1998	1999	2000	2001	2002	2003	2004	2005
Production									
Mine ^a									
New South Wales	t	0	0	0	0	750	1 031	429	0
Queensland	t	40	40	10	0	0	0	0	106
Tasmania	t	9 566	9 414	8 327	8 961	5 609	2 282	396	2 237
Western Australia	t	568	557	778	879	659	552	371	476
Total	t	10 174	10 011	9 115	9 840	7 017	3 864	1 196	2 819
Refinery	t	655	586	735	1 094	791	597	467	594
Exports									
Tin ore and concentrate									
Malaysia	t	11 542	9 548	8 067	5 728	1 199	605	41	3 696
Thailand	t	3 834	6 626	6 076	9 426	10 342	4 123	0	0
Other	t	0	0	0	0	0	0	0	40
Total	t	15 376	16 174	14 143	15 154	11 541	4 728	41	3 736
	\$m	73.03	69.55	67.43	66.08	43.36	18.41	0.25	16.29
Refined									
Malaysia	t	0	20	50	1	0	65	180	539
Thailand	t	0	109	27	0	0	0	0	0
United States	t	480	199	1	0	0	0	0	0
Other	t	62	165	217	96	12	4	15	21
Total	t	542	493	295	97	12	69	195	560
	\$m	4.36	3.01	0.97	0.53	0.17	0.25	1.06	0.70
Tin content of primary materials exported ^b	t	10 066	10 556	9 057	9 325	6 995	2 885	218	2 573
Prices ^c									
World	US\$/t	5 542.4	5 399.9	5 434.8	4 483.6	4 062.0	4 896.3	8 512.0	7 382.0

^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.

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World mine production of tin in concentrates, by country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	10.2	10.0	9.1	9.8	7.0	3.9	1.2	2.8
Bolivia	11.3	12.4	12.5	12.0	13.2	16.4	18.1	18.7
Brazil	14.2	13.2	13.8	13.0	12.0	12.2	12.2	11.7
China	70.1	80.1	97.1	99.4	81.0	101.8	118.2	119.5
Indonesia	55.9	47.8	51.6	56.3	78.6	64.0	78.4	120.0
Kazakhstan	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
Laos	0.6	0.4	0.4	0.8	1.1	1.1	1.1	1.1
Malaysia	5.8	7.3	6.3	5.0	4.2	3.4	2.7	2.9
Myanmar	0.1	0.2	1.6	0.6	0.3	0.5	0.4	0.4
Nigeria	1.9	1.5	2.0	1.3	0.9	0.9	0.9	0.9
Peru	25.7	30.6	37.4	38.2	38.8	40.2	41.6	42.1
Portugal	3.1	2.2	1.2	1.2	0.3	0.2	0.2	0.2
Rwanda	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
Russian Federation	7.0	5.2	6.6	5.5	5.2	5.4	5.3	5.1
Thailand	1.7	2.7	2.2	2.5	1.1	0.9	0.7	0.2
United Kingdom	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viet Nam	4.5	4.5	1.8	1.7	1.7	2.1	3.5	5.1
Other ^s	0.0	0.1	0.1	0.0	0.2	0.0	0.2	0.4
Total ^s	213.4	219.1	244.6	247.5	245.8	253.2	284.9	331.3

^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.

338 Summary of Australian statistics for titanium

	Ilmenite concentrate				Rutile concentrate			
	Production ^a	Exports			Production ^a	Exports		
	Volume kt	Volume kt	Value \$m	Unit value \$/t	Volume kt	Volume kt	Value \$m	Unit value \$/t
1960	108	77	0.6	7.8	90	95	8.1	85.3
1961	169 ^b	146	1.3	8.9	103	101	6.4	63.4
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

^a Ex mine. ^b Despatches. ^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.

339 World ilmenite production, by country

	Australia ^a kt	India kt	Malaysia kt	Norway kt	Ukraine ^s kt	United States kt	Other ^s kt	Total ^s kt
1960	108	250	120 b	246	127	714	1 015	2 580
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	5 306
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	8 759
2000	2 146	416	110	750	260	418	5 488	9 588
2001	2 019	457	170	750	319	437	5 908	10 060
2002	1 954	522	185	790	356	410	5 883	10 238
2003	2 006	632	175	850	365	474	5 622	10 179
2004	1 920	698	189	870	448	506	5 761	10 392
2005	2 030	623	223	816	470	511	6 271	10 944

^a Includes leucosene. ^b Exports to 1985. ^c Bureau of Mineral Resources estimate. ^d DEMA Pty Ltd estimates. ^s ABARE estimate.
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.

340 World rutile concentrate and titaniferous slag production, by country

	Rutile concentrate						Titaniferous slag	
	Australia	Sierra Leone	South Africa	United States	Other s	Total s	Canada	South Africa
	kt	kt	kt	kt	kt	kt	kt	kt
1960	90	0	0	8	26	124	312	0
1961	103	0	0	8	25	136	374	0
1962	121	0	0	9	26	156	273	0
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 ^a	0	5	23	322	547	0
1968	293	14 ^a	0	2	24	333	610	0
1969	326	28 ^a	0	0	26	380	680	0
1970	371	44 ^a	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 ^a	27	370	855	0
1974	319	0	0	6 ^a	26	351	845	0
1975	348	0	0	10 ^a	28	386	748	0
1976	390	0	0	8 ^a	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 ^a	35	413	844	435
1986	216	97	60	30 ^a	37	440	850	435
1987	249	113	56	30 ^a	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	447	893	1 090
2001	207	0	122	30	83	438	990	1 030
2002	219	0	134	22	82	454	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	82	411	876	1 198

^a Bureau of Mineral Resources estimate. ^s ABARE estimate.

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.

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Summary of Australian statistics for uranium

	Production a	Exports		
		Volume b	Value	Unit value
	t	t	\$m	\$/kg U ₃ O 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

a Tonnes of uranium oxide (U₃O₈). b Before 1983-84, exports are tonnes of concentrate; from 1983-84, exports are tonnes of U₃O₈. 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.

342 World uranium production, by country ^a

	Australia kt	Canada kt	Gabon kt	Namibia kt	Niger kt	South Africa kt	United States kt	Total ^b 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	3.25	0.75	0.88	40.26
2005	8.98	11.80	0.00	3.00	3.40	0.85	0.84	41.25

^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.

343 World uranium consumption, by country ^a

	Canada kt	France kt	Germany ^b kt	Japan kt	United Kingdom kt	United States kt	Other kt	Total 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

^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.

344 Uranium prices ^a

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Av.
1972	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95
1973	5.95	6.00	6.10	6.20	6.45	6.50	6.50	6.50	6.50	6.50	6.75	7.00	6.41
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	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 U₃O₈. **na** Not available.

Sources: TradeTech, *The Nuclear Review*, Denver, Colorado (previously Nuexco, *Monthly Report*); Ux Consulting.

345 Nuclear power reactors in operation

	2002 Reactors in operation ^a		2003 Reactors in operation ^a		2004 Reactors in operation ^a		2005 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	5 760	7	5 760	7	5 801
Brazil	2	1 901	2	1 901	2	1 901	2	1 901
Bulgaria	4	2 722	4	2 722	4	2 722	4	2 722
Canada	14	10 018	17	12 113	17	12 113	18	12 595
China	7	5 318	9	6 587	9	6 587	9	6 587
Czech Republic	6	3 468	6	3 548	6	3 548	6	3 472
Finland	4	2 656	4	2 656	4	2 656	4	2 676
France	59	63 073	59	63 363	59	63 363	59	63 474
Germany	19	21 283	18	20 643	18	20 643	17	20 303
Hungary	4	1 755	4	1 755	4	1 755	4	1 755
India	14	2 503	14	2 550	14	2 550	15	2 993
Japan	54	44 287	54	45 464	54	45 464	55	47 700
Korea, Rep. of	18	14 890	19	15 850	19	15 850	20	16 840
Lithuania	2	2 370	2	2 370	2	2 370	1	1 185
Mexico	2	1 360	2	1 310	2	1 310	2	1 310
Netherlands	1	450	1	449	1	449	1	452
Pakistan	2	425	2	425	2	425	2	425
Romania	1	655	1	655	1	655	1	655
Russia	30	20 793	30	20 793	30	20 793	31	21 743
South Africa	2	1 800	2	1 800	2	1 800	2	1 842
Slovakia	6	2 408	6	2 442	6	2 442	6	2 472
Slovenia	1	676	1	656	1	656	1	676
Spain	9	7 574	9	7 584	9	7 584	9	7 584
Sweden	11	9 432	11	9 451	11	9 451	10	8 904
Switzerland	5	3 200	5	3 220	5	3 200	5	3 220
United Kingdom	31	12 252	23	11 852	27	12 052	23	11 852
Ukraine	13	11 207	14	12 157	13	11 207	15	13 168
United States	104	98 230	104	98 298	104	98 298	103	97 838
Total	441	358 661	439	364 569	442	363 819	441	368 340

^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.

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Summary of Australian statistics for zinc

	Production		Consumption c	Exports d		Price e
	Mine a	Refined b		Volume	Value	
	kt	kt	kt	kt	\$m	\$/t
1960	323	122	92	175	17	222.8
1961	316	141	79	169	19	202.5
1962	343	171	86	210	23	196.8
1963	357	183	94	216	26	200.8
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

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.

zinc

347 Australian supply and disposal of zinc

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Production									
Mine ^a	kt	1 142	1 265	1 483	1 490	1 529	1 355	1 352	1 382
Refined									
Primary	kt	323	405	534	572	570	502	464	446
Secondary ^b	kt	7	5	5	6	6	6	6	6
Exports									
Ores and concentrates	kt	1 729	1 496	1 903	1 849	1 913	1 844	1 953	1 838
	\$m	690	682	977	735	670	677	852	1 544
Refined metal	kt	274	317	452	496	486	396	397	388
	\$m	444	550	905	794	757	557	614	998
Consumption ^c	kt	90	89	81	88	86	84	79	79
Export unit value									
Ores and concentrates	A\$/t	399.0	456.2	513.5	397.5	350.3	366.9	436.2	840.0
Refined metal	A\$/t	1 617.8	1 734.0	2 000.5	1 600.8	1 558.2	1 408.6	1 549.1	2 573.2

^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.

348 Volume of Australian exports of zinc, by destination ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Ores and concentrates ^b								
Belgium	103	100	40	27	89	64	45	15
China	16	0	5	94	63	116	131	103
Germany	17	6	22	33	28	27	32	6
India	36	27	14	0	18	19	34	18
Italy	22	34	33	21	67	21	5	na
Japan	239	226	217	216	185	202	181	184
Korea, Rep. of	239	257	173	252	173	186	234	278
Netherlands	10	23	238	188	219	225	230	207
Thailand	27	43	52	32	25	24	na	19
United Kingdom	46	43	31	42	65	5	na	na
Other	21	57	65	119	84	118	103	101
Total	776	816	890	1 024	1 016	1 007	995	931
Metal								
Bangladesh	10	3	12	18	22	16	2	2
Chinese Taipei	49	67	72	63	61	42	39	74
Hong Kong, China	50	66	74	87	92	105	119	147
India	5	4	9	13	12	14	5	11
Indonesia	34	37	39	32	33	31	18	17
Malaysia	35	55	33	33	30	19	36	90
Netherlands	na	13	3	18	21	33	na	na
Saudi Arabia	1	6	11	15	21	24	17	8
Thailand	4	3	4	9	15	7	6	5
United States	6	5	124	89	58	8	8	na
Other	34	21	46	80	118	162	75	109
Total	228	280	427	457	483	461	325	463

^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.

349 World production, consumption, stocks and prices of zinc

	Production				Consumption c	Stocks b	Price d
	Mine a	Refined metal		Total			
		Primary	Secondary b				
	kt	kt	kt	kt	kt	kt	US\$/t
1960	3 384	2 993	163	3 156	3 114	448	246.9
1961	3 476	3 199	149	3 348	3 282	478	214.3
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	6 663	534	1 520.0
1991	7 214	6 427	428	6 868	6 622	650	1 116.0
1992	7 208	6 605	425	6 957	6 555	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	6 987	1 669	998.0
1995	6 982	6 850	497	7 359	7 545	1 170	1 031.0
1996	7 296	6 919	524	7 443	7 549	913	1 025.0
1997	7 337	7 283	500	7 783	7 782	901	1 313.0
1998	7 569	7 503	518	8 021	7 912	762	1 023.0
1999	8 065	7 816	552	8 368	8 496	734	1 076.3
2000	8 839	8 382	599	8 981	8 997	662	1 128.4
2001	8 933	8 599	622	9 221	8 920	946	885.5
2002	8 892	9 082	628	9 721	9 377	1 095	778.9
2003	9 520	9 281	593	9 870	9 843	1 158	828.0
2004	9 733	9 801	552	10 357	10 646	1 039	1 047.4
2005	10 114	9 703	523	10 261	10 628	808	1 381.9

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.

zinc

350 World zinc mine production, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	4	5	6	7	5	2	0	3
Morocco	112	112	105	89	91	69	87	128
Namibia	42	35	40	37	41	108	202	232
South Africa	70	70	63	61	64	41	32	32
Tunisia	28	45	41	41	37	38	31	19
Total	257	267	256	236	237	258	352	414
Americas								
Argentina	36	34	35	40	37	30	27	30
Bolivia	151	145	151	145	142	145	147	157
Brazil	88	99	100	111	136	153	159	171
Canada	1 062	1 021	1 002	1 065	916	788	791	667
Chile	16	32	31	33	36	33	28	29
Honduras	37	41	43	48	46	44	41	43
Mexico	395	363	393	429	446	414	426	476
Peru	869	900	910	1 056	1 219	1 369	1 209	1 202
United States	755	852	852	842	784	768	739	747
Total	3 408	3 483	3 517	3 769	3 762	3 744	3 568	3 522
Asia								
China	1 273	1 476	1 780	1 572	1 624	2 029	2 391	2 525
India	195	185	208	222	234	305	340	446
Iran	86	98	102	105	121	111	135	118
Japan	68	64	64	45	43	45	48	41
Kazakhstan	224	283	322	320	376	392	404	405
Korea, Dem. Rep. of	44	37	34	28	32	52	62	60
Korea, Rep. of	11	10	12	5	na	na	na	na
Thailand	25	24	27	24	25	31	40	43
Turkey	58	57	48	36	43	40	39	56
Viet Nam	18	18	22	32	42	45	40	48
Total	2 005	2 258	2 623	2 400	2 546	3 057	3 507	3 756
Australia	1 020	1 110	1 379	1 476	1 444	1 447	1 298	1 329
Europe								
Bulgaria	18	11	10	11	14	12	11	13
Finland	31	20	16	20	35	39	37	41
Greece	20	18	17	32	35	3	na	4
Ireland	180	200	263	298	253	419	438	429
Macedonia	24	21	25	20	10	4	na	na
Poland	158	155	157	153	152	152	140	136
Romania	25	27	27	29	22	22	19	14
Russian Federation	114	161	163	164	162	159	162	186
Spain	128	154	204	161	70	15	na	na
Sweden	161	175	177	159	149	188	199	216
Total	880	947	1 063	1 052	903	1 013	1 007	1 040
Total	7 569	8 065	8 839	8 933	8 892	9 520	9 733	10 114

^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.

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World zinc metal production, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	27	27	26	26	34	35	33	37
South Africa	107	108	103	109	111	112	105	104
Total	134	135	129	135	147	197	260	274
Americas								
Argentina	39	40	36	40	39	39	35	41
Brazil	177	187	192	193	255	258	266	267
Canada	745	777	780	661	793	761	805	723
Mexico	229	219	235	304	306	320	337	336
Peru	184	191	200	190	170	202	196	164
United States	368	372	371	329	339	350	354	342
Total	1 741	1 785	1 814	1 717	1 903	1 930	1 993	1 873
Asia								
China	1 486	1 703	1 957	2 038	2 155	2 319	2 720	2 772
India	180	189	204	234	248	280	272	302
Iran	19	24	47	65	82	84	96	140
Japan	608	633	654	644	640	651	635	638
Kazakhstan	240	243	262	277	286	279	317	357
Korea, Dem. Rep. of	43	40	37	31	34	55	65	60
Korea, Rep. of	390	430	477	508	608	645	669	647
Thailand	89	95	101	105	105	107	103	93
Uzbekistan	52	27	34	35	30	30	30	45
Total	3 143	3 412	3 774	3 936	4 189	4 450	4 906	5 060
Australia	311	344	494	556	567	553	474	457
Europe								
Belgium	205	232	264	256	239	244	257	222
Bulgaria	86	84	84	88	82	86	102	95
Finland	199	225	223	249	235	266	285	282
France	320	318	318	329	334	253	260	209
Germany	361	361	357	357	378	388	358	335
Italy	232	145	170	179	176	123	118	121
Macedonia	54	49	58	52	56	28	na	na
Netherlands	217	221	217	206	203	223	225	228
Norway	138	144	138	145	145	142	140	148
Poland	175	179	173	175	159	154	156	137
Romania	29	29	52	52	38	51	52	53
Russian Federation	197	232	242	250	257	253	241	211
Spain	385	383	391	437	503	519	523	500
United Kingdom	79	89	76	90	98	14	na	na
Other	14	1	7	12	1	0	3	20
Total	2 691	2 692	2 770	2 877	2 904	2 744	2 720	2 561
Total	8 021	8 368	8 981	9 221	9 721	9 870	10 357	10 261

^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.

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Volume of world zinc trade, by country ^a

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Exports								
Ores and concentrates ^b								
Australia	776	816	890	1 024	1 016	1 007	955	931
Canada	391	327	311	428	409	258	228	155
China	95	119	70	7	2	na	na	na
Ireland	169	214	257	305	249	417	445	410
Mexico	155	141	138	117	131	105	62	155
Peru	592	601	620	747	906	900	879	775
Sweden	145	163	169	130	140	150	188	185
United States	552	531	523	698	827	822	746	788
Metal								
Australia	228	280	427	457	483	461	325	463
Belgium	105	86	99	90	107	110	138	11
Canada	577	611	603	495	598	591	614	527
China	354	507	561	544	472	451	224	123
Finland	156	187	168	175	189	212	236	235
CIS	253	255	254	236	226	147	na	na
France	144	128	112	127	143	110	115	80
Korea, Rep. of	159	154	177	209	261	317	320	261
Mexico	125	74	130	151	161	181	189	194
Netherlands	263	245	223	284	197	421	285	320
Norway	117	122	117	113	133	126	127	135
Peru	125	124	125	121	127	137	113	84
Spain	114	136	96	94	79	246	295	334
Imports								
Ores and concentrates ^b								
Belgium	221	505	442	412	409	571	704	596
Canada	210	266	208	140	276	397	273	195
China	26	22	39	384	393	373	306	284
Finland	193	203	216	204	218	218	240	250
CIS	207	130	141	92	70	60	na	na
France	282	301	318	287	279	241	229	212
Germany	208	120	156	175	176	186	240	201
Italy	248	126	158	156	141	96	125	110
Japan	486	564	531	575	559	544	563	530
Korea, Rep. of	400	441	480	537	582	616	627	642
Netherlands	209	221	213	152	38	214	204	225
Spain	255	287	283	344	451	537	459	545
United Kingdom	73	114	160	108	115	8	0	0
Metal								
Belgium	232	189	237	233	237	222	269	48
Chinese Taipei	241	273	294	277	304	332	344	309
France	117	129	129	127	98	115	103	143
Germany	265	252	251	260	231	253	249	246
Italy	149	198	213	176	202	226	273	261
Japan	113	57	81	64	17	41	42	46
Korea, Rep. of	72	113	130	97	115	108	72	59
Netherlands	154	125	172	178	138	182	220	195
Singapore	167	131	158	204	142	68	18	12
United Kingdom	161	112	119	111	106	174	142	139
United States	882	1 070	923	827	878	792	868	700

^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.

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World zinc consumption, by region and country ^a

	1998	1999	2000	2001	2002	2003	2004	2005
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	8	8	10	11	11	9	9	12
Egypt	15	17	17	16	17	16	16	16
Kenya	11	12	12	12	11	14	14	14
Morocco	7	7	10	9	12	5	14	13
Nigeria	8	9	8	9	9	12	12	12
South Africa	91	87	92	89	95	86	96	103
Tunisia	3	5	5	4	5	3	5	5
Other Africa	10	12	16	16	28	28	28	28
Total	153	157	170	165	187	174	193	203
Americas								
Argentina	39	41	38	36	37	32	46	49
Brazil	177	179	188	198	216	215	239	210
Canada	170	169	176	181	192	185	189	175
Chile	9	8	10	12	9	10	11	10
Colombia	20	16	21	20	21	20	23	25
Mexico	186	200	212	210	225	236	240	244
Peru	59	67	75	67	71	61	80	64
United States	1 307	1 342	1 348	1 163	1 217	1 152	1 251	1 077
Venezuela	15	16	15	16	12	12	16	16
Other America	19	21	22	22	23	26	28	28
Total	2 000	2 058	2 105	1 925	2 023	1 950	2 123	1 897
Asia								
Bangladesh	31	38	44	48	51	52	50	49
China	920	1 200	1 350	1 500	1 750	2 155	2 690	3 037
Hong Kong, China	6	6	6	6	5	5	5	5
India	232	254	270	286	310	339	362	394
Indonesia	58	55	87	88	85	79	87	83
Iran	53	57	58	62	69	70	72	76
Israel	9	11	11	11	13	10	7	11
Japan	659	634	676	633	603	619	623	602
Kazakhstan	28	32	34	34	35	35	35	35
Korea Dem. Rep. of	18	17	15	12	10	6	5	5
Korea, Rep. of	318	389	438	401	476	482	445	503
Malaysia	39	47	54	50	62	65	68	67
Pakistan	24	26	25	25	24	25	24	24
Philippines	34	41	27	33	32	19	20	12
Saudi Arabia	15	16	16	16	14	23	23	27
Singapore	14	16	17	15	16	16	16	16
Chinese Taipei	241	273	294	276	302	330	342	306
Thailand	70	83	90	103	107	116	129	117
Turkey	68	74	83	84	99	122	144	139
Uzbekistan	8	8	8	8	8	8	8	7
Viet Nam	32	34	36	40	40	45	45	47
Other Asia East	1	1	1	1	1	1	2	2
Other Asia West	23	25	29	30	32	35	36	25
Total	2 902	3 337	3 669	3 762	4 147	4 660	5 241	5 593

Continued

zinc

353 World zinc consumption, by region and country ^a

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt	2005 kt
Europe								
Austria	45	48	47	48	48	49	48	48
Belgium	260	275	285	265	352	350	365	345
Bosnia and Herzegovina	7	7	8	8	7	5	5	5
Bulgaria	9	9	10	10	14	28	11	12
Croatia	10	10	10	9	9	8	8	8
Czech Republic	19	17	21	20	20	21	21	20
Denmark	14	17	12	11	11	11	11	10
Finland	38	36	47	52	53	57	52	47
France	286	300	311	327	290	291	298	275
Germany	573	561	532	549	526	539	514	511
Greece	19	18	21	26	22	20	29	17
Hungary	13	14	15	15	16	20	20	15
Ireland	3	2	2	3	5	3	3	3
Italy	371	336	385	348	374	348	389	395
Macedonia	10	9	10	10	9	8	8	7
Netherlands	104	106	106	108	114	114	115	115
Norway	25	21	23	25	29	18	14	12
Poland	111	92	109	96	88	102	103	76
Portugal	12	14	12	12	13	18	13	12
Romania	19	20	22	22	18	16	28	23
Russian Federation	111	120	137	150	153	189	163	171
Serbia	na	na	na	na	10	11	8	8
Slovak Republic	27	27	28	28	30	30	30	32
Slovenia	15	14	17	15	12	13	14	14
Spain	197	190	203	228	220	226	248	216
Sweden	37	38	40	27	33	31	42	42
Switzerland	20	19	15	19	20	11	14	12
Ukraine	62	62	65	65	65	65	65	50
United Kingdom	219	220	210	191	185	188	185	175
Yugoslavia	12	8	10	10	na	na	na	na
Other	3	3	4	7	8	8	6	7
Total	2 650	2 612	2 717	2 704	2 754	2 797	2 830	2 683
Oceania								
Australia	192	210	217	222	249	254	250	239
New Zealand	15	16	14	16	17	13	13	14
Total	207	226	231	237	266	267	263	253
World Total	7 912	8 391	8 891	8 793	9 377	9 843	10 646	10 628
Western World	6 531	6 735	7 036	6 785	7 118	7 115	7 417	7 086

^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. **na** Not available.
Source: International Lead-Zinc Study Group, *Lead and Zinc Statistics*, Lisbon, Portugal.

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Summary of Australian statistics for zircon and monazite

	Zircon concentrate				Monazite concentrate			
	Production ^a	Exports ^b			Production ^a	Exports		
	Volume kt	Volume kt	Value \$m	Unit value \$/t	Volume kt	Volume kt	Value \$m	Unit value \$/t
1960	101	103	2.7	26.2	0.4	0.2	0.0	0.0
1961	134	138	3.4	24.6	1.6	1.8	0.1	61.1
1962	132	130	3.3	25.4	0.8	1.5	0.1	80.0
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	355.5 s	841.9 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.

zircon and monazite

355 World zircon production, by major producing country

	Australia kt	South Africa ^a kt	Ukraine kt	United States ^a kt	Other ^a kt	Total ^a kt
1960	101	na	na	na	na	na
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	60	181	90	1 022
2001	393	377	60	173	87	1 090
2002	412	420	60	132	104	1 129
2003	462	370	65	144	96	1 137
2004	441	379	60	172	116	1 168
2005	427	399	60	164	142	1 192

^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.

where to find

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