

australian **commodity statistics**

2005



abare

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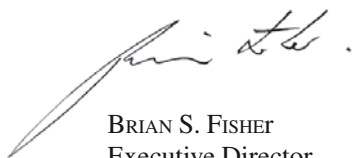
foreword

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).



BRIAN S. FISHER
Executive Director

December 2005

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	

Country grouping

New to this year's *Australian Commodity Statistics* is a list of members of key international organisations — APEC, ASEAN, EU, OECD and OPEC — see pp. xiv–xv.

Small discrepancies in totals are generally caused by rounding.

0 is used to denote nil or a negligible amount.

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

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

Fourth 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

OECD – Organisation for Economic Cooperation and Development

Deposited instruments of ratification

Canada	10 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

OPEC – Organisation of the Petroleum Exporting Countries

Algeria
Indonesia
Iran
Kuwait
Libya
Nigeria
Qatar
Saudi Arabia
United Arab Emirates
Venezuela

australian **economy**

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- > 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	Total b					
\$m	\$m	\$m	\$m	\$m	\$m	\$m	
1974-75	11 084	11 965	10 105	na	11 762	319 309	67 893
1975-76	12 098	12 953	9 800	na	11 459	328 317	79 596
1976-77	12 394	13 300	10 437	na	12 203	339 626	91 744
1977-78	11 963	12 864	10 702	na	12 469	342 957	100 269
1978-79	14 866	15 657	10 978	na	12 740	357 591	113 510
1979-80	12 778	13 732	10 745	na	12 313	369 130	128 930
1980-81	10 931	12 038	10 947	na	12 431	381 181	145 868
1981-82	13 064	14 007	10 860	na	12 046	393 021	168 067
1982-83	9 959	10 945	11 273	na	12 620	383 774	180 888
1983-84	14 816	15 683	12 105	na	13 698	402 089	204 373
1984-85	14 867	15 716	13 674	na	15 607	423 361	225 605
1985-86	14 469	15 291	15 317	3 038	17 245	441 535	248 582
1986-87	14 555	15 383	14 579	2 074	16 286	451 883	272 249
1987-88	14 016	14 960	17 085	2 673	19 145	476 115	310 591
1988-89	14 232	15 256	17 945	2 782	20 103	495 409	351 790
1989-90	15 479	16 501	20 024	2 469	22 269	513 889	384 845
1990-91	16 479	17 586	21 441	2 112	23 684	513 287	397 755
1991-92	15 112	16 281	22 562	1 941	24 841	514 595	406 526
1992-93	16 196	17 366	22 601	2 231	24 989	533 397	425 889
1993-94	16 872	18 002	23 006	2 245	25 433	554 165	446 307
1994-95	13 605	14 912	24 522	2 711	27 184	577 505	470 168
1995-96	17 103	18 414	26 424	2 901	29 276	601 273	501 257
1996-97	18 472	19 921	26 757	3 070	29 756	624 122	527 994
1997-98	18 244	19 745	27 598	3 220	30 738	652 206	559 139
1998-99	20 216	21 737	27 779	2 869	30 609	686 772	589 597
1999-00	20 933	22 596	29 795	2 528	32 338	712 872	623 461
2000-01	21 827	23 571	31 736	2 985	34 745	727 841	668 426
2001-02	22 597	24 341	31 599	3 019	34 635	756 227	713 229
2002-03	16 870	18 549	31 115	3 237	34 345	780 426	758 147
2003-04	22 540	24 373	30 132	3 047	33 178	811 642	811 643
2004-05	21 257	23 168	30 819	3 222	34 044	830 400	863 721

a Reference year is 2003-04. 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

^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

^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.

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	15 139	607	674	21 195	37 264	44 187	55 322
1989-90	14 404	607	784	24 932	40 497	48 927	60 842
1990-91	13 016	696	831	28 030	42 371	52 568	66 249
1991-92	14 563	737	980	28 304	44 322	55 427	70 065
1992-93	15 893	815	1 090	29 759	47 352	60 634	77 045
1993-94	17 602	897	1 243	29 878	48 896	64 419	83 186
1994-95	17 809	1 052	1 367	30 371	50 023	67 101	87 926
1995-96	20 247	1 067	1 328	34 450	56 472	76 146	99 385
1996-97	21 833	1 182	1 305	36 052	59 740	80 934	105 571
1997-98	23 082	1 324	1 489	40 925	66 181	88 538	114 005
1998-99	22 603	1 300	1 511	38 914	63 595	85 783	112 552
1999-00	24 139	1 580	1 988	44 063	70 747	97 665	126 863
2000-01	29 549	1 813	2 169	57 013	89 650	120 216	154 669
2001-02	31 073	1 984	2 100	55 951	90 314	120 950	154 778
2002-03	26 810	2 060	1 844	55 033	84 984	115 800	149 691
2003-04	26 129	2 002	1 652	52 373	81 314	109 504	144 676
2004-05	27 678	2 089	1 542	67 503	97 932	127 610	164 128

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	26.5	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	26.3	1.5	1.8	45.4	74.1
1999-00	24.7	1.6	2.0	45.1	72.4
2000-01	24.6	1.5	1.8	47.4	74.6
2001-02	25.7	1.6	1.7	46.3	74.7
2002-03	23.2	1.8	1.6	47.5	73.4
2003-04	23.9	1.8	1.5	47.8	74.3
2004-05	21.7	1.6	1.2	52.9	76.7

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

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

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	19.6	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	20.2	1.2	1.3	35.9	58.1	77.7	22.3
1998-99	20.1	1.2	1.3	34.6	56.5	76.2	23.8
1999-00	19.0	1.2	1.6	34.7	55.8	77.0	23.0
2000-01	19.1	1.2	1.4	36.9	58.0	77.7	22.3
2001-02	20.1	1.3	1.4	36.1	58.4	78.1	21.9
2002-03	17.9	1.4	1.2	36.8	56.8	77.4	22.6
2003-04	18.1	1.4	1.1	36.2	56.2	75.7	24.3
2004-05	16.9	1.3	0.9	41.1	59.7	77.8	22.2

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

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

7 Value of Australian exports, by sector ^a

Chain volume measures

	Rural products ^b	Resource sector products ^c	Other merchandise	Total merchandise ^d	Services ^d	Total goods and services ^d
	\$m	\$m	\$m	\$m	\$m	\$m
1974-75	9 402	11 154	2 828	23 384	6 547	29 918
1975-76	11 500	11 114	2 096	24 710	6 317	31 152
1976-77	12 867	11 961	1 872	26 700	6 377	33 349
1977-78	12 838	12 346	2 039	27 223	6 657	34 094
1978-79	12 965	13 207	2 528	28 700	7 824	36 516
1979-80	14 319	13 176	3 319	30 814	7 988	38 958
1980-81	12 751	12 646	2 938	28 335	8 713	36 953
1981-82	13 008	13 156	2 838	29 002	8 934	37 828
1982-83	12 104	14 291	2 782	29 177	8 886	38 024
1983-84	12 185	15 852	3 552	31 589	9 344	40 948
1984-85	14 309	18 608	3 976	36 893	10 114	47 264
1985-86	15 231	18 955	4 022	38 208	10 593	49 044
1986-87	16 080	20 409	5 724	42 213	11 817	54 274
1987-88	15 733	22 633	6 732	45 098	14 109	59 185
1988-89	14 817	22 813	7 420	45 050	15 336	60 113
1989-90	14 928	25 388	7 347	47 663	15 559	63 075
1990-91	16 301	29 560	7 616	53 477	17 046	70 441
1991-92	17 826	32 283	8 811	58 919	17 912	76 867
1992-93	19 024	32 926	10 318	62 268	19 928	82 133
1993-94	21 070	33 164	13 623	67 857	22 553	90 238
1994-95	19 759	34 004	15 911	69 673	25 479	94 749
1995-96	21 830	37 432	17 708	76 971	27 753	104 326
1996-97	24 787	41 984	19 738	86 508	29 096	115 412
1997-98	25 998	45 999	18 091	90 088	29 640	119 576
1998-99	26 836	45 900	19 501	92 236	30 833	122 866
1999-00	29 577	47 749	24 640	101 966	32 877	134 683
2000-01	30 904	50 477	26 768	108 149	37 006	144 862
2001-02	32 407	51 210	24 833	108 450	35 385	143 764
2002-03	27 775	52 439	27 940	108 154	34 505	142 675
2003-04	28 941	52 370	28 193	109 504	35 171	144 676
2004-05	28 638	53 443	30 834	112 915	35 438	148 352

^a Reference year 2003-04. ^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	108.6	87.8	111.5	96.6	102.0	97.0
1991-92	87.6	112.6	89.7	103.6	88.1	93.7	92.2
1992-93	90.0	118.0	92.4	109.7	92.1	98.5	96.3
1993-94	89.4	134.2	93.0	100.2	88.6	92.8	92.8
1994-95	99.7	137.6	102.8	94.3	92.3	93.0	96.3
1995-96	105.0	134.5	107.4	101.5	95.3	97.5	100.9
1996-97	95.0	132.7	98.0	103.2	86.9	92.9	94.6
1997-98	101.7	133.4	104.3	106.0	94.8	98.9	100.7
1998-99	92.9	131.2	96.0	96.8	92.4	94.0	94.6
1999-00	90.2	141.2	94.2	110.4	98.0	102.7	99.6
2000-01	108.3	153.9	112.0	141.0	115.6	125.4	120.6
2001-02	117.6	151.8	120.3	140.8	110.3	122.3	121.4
2002-03	115.7	144.3	118.0	135.2	106.0	117.4	117.4
2003-04	106.9	132.6	108.9	120.2	105.0	111.0	110.2
2004-05	107.0	134.4	109.2	166.1	124.9	140.9	130.5
Quarterly indexes b							
2002-03							
September	111.4	118.0	112.8	148.4	118.6	130.5	123.8
December	119.0	107.9	117.9	148.6	114.9	128.3	124.3
March	119.3	102.6	116.1	148.7	116.8	129.6	125.1
June	113.2	90.9	111.0	127.7	108.9	116.7	114.0
2003-04							
September	106.6	95.6	105.3	124.9	109.3	115.7	111.9
December	106.9	97.7	105.7	118.8	110.3	114.0	110.9
March	105.0	94.2	103.1	119.9	108.5	113.2	109.6
June	108.9	97.9	108.3	146.5	126.6	134.6	124.8
2004-05							
September	109.0	103.3	108.5	163.3	131.5	144.2	131.4
December	105.7	97.1	104.4	166.7	128.0	143.3	129.5
March	108.2	95.1	106.2	164.5	130.9	144.4	130.9
June	105.2	95.1	104.6	210.1	150.6	174.0	149.7

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	14.0
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	23.0
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	2.3	5.5	5.1	2.4	147.0

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 trade b	Net foreign debt c	
	goods and services		balance a			Level	Share of
	Imports	Exports	Level	GDP			
	\$m	\$m	\$m	%			
1960-61	2 636	2 168	-748	-4.9	104.2	na	na
1961-62	2 243	2 468	-8	-0.1	106.0	na	na
1962-63	2 656	2 489	-468	-2.8	107.7	na	na
1963-64	2 920	3 158	-70	-0.4	119.3	na	na
1964-65	3 535	3 050	-780	-3.8	113.0	na	na
1965-66	3 683	3 136	-889	-4.1	113.5	na	na
1966-67	3 770	3 484	-659	-2.8	112.8	na	na
1967-68	4 224	3 574	-1 131	-4.4	108.0	na	na
1968-69	4 360	3 897	-980	-3.4	111.4	na	na
1969-70	4 871	4 765	-688	-2.2	112.7	na	na
1970-71	5 214	5 086	-749	-2.1	101.5	na	na
1971-72	5 351	5 685	-293	-0.8	99.5	na	na
1972-73	5 512	7 016	754	1.7	117.9	na	na
1973-74	7 996	7 896	-921	-1.7	127.1	na	na
1974-75	10 510	10 114	-1 195	-1.8	115.5	na	na
1975-76	11 163	11 225	-1 423	-1.8	110.4	3 133	4.0
1976-77	14 106	13 425	-2 435	-2.7	106.9	5 160	5.7
1977-78	15 342	14 245	-2 970	-3.0	96.9	7 434	7.5
1978-79	18 260	16 910	-3 604	-3.3	97.8	9 553	8.5
1979-80	21 444	22 013	-1 974	-1.7	101.4	7 923	6.2
1980-81	25 530	22 605	-5 435	-4.0	100.5	9 361	6.4
1981-82	29 660	23 694	-9 159	-5.4	98.5	18 378	11.0
1982-83	29 667	25 622	-6 854	-3.8	97.8	25 169	14.0
1983-84	32 162	28 888	-7 832	-3.8	100.0	31 850	15.7
1984-85	40 790	35 741	-11 283	-5.0	97.5	53 055	23.6
1985-86	47 199	38 937	-15 488	-6.2	88.4	78 396	31.5
1986-87	49 032	44 312	-12 597	-4.6	81.8	87 971	32.3
1987-88	54 080	51 737	-11 744	-3.6	88.3	98 767	30.9
1988-89	62 296	55 322	-19 200	-5.2	100.3	117 240	31.4
1989-90	68 771	60 842	-22 953	-5.7	107.6	130 620	32.9
1990-91	66 948	66 249	-17 689	-4.3	101.6	142 065	35.0
1991-92	69 269	70 065	-13 264	-3.2	87.8	162 466	39.0
1992-93	79 077	77 045	-14 958	-3.4	84.2	177 453	40.5
1993-94	85 396	83 186	-15 904	-3.5	81.7	171 313	37.2
1994-95	97 654	87 926	-28 292	-5.8	83.8	190 790	39.2
1995-96	101 078	99 385	-21 325	-4.1	86.5	193 872	37.4
1996-97	103 590	105 571	-17 429	-3.2	89.1	208 628	38.2
1997-98	118 482	114 005	-23 037	-4.0	89.0	227 782	39.4
1998-99	126 456	112 552	-33 749	-5.6	84.0	230 689	38.0
1999-00	140 811	126 863	-32 080	-5.0	87.5	272 639	42.3
2000-01	153 205	154 669	-17 946	-2.6	90.0	302 467	43.9
2001-02	154 573	154 778	-19 486	-2.6	91.7	324 147	44.1
2002-03	167 169	149 691	-40 184	-5.1	93.4	357 848	45.7
2003-04	167 261	144 676	-47 033	-5.6	100.0	394 680	47.1
2004-05	187 842	164 128	-57 516	-6.5	110.0	437 038	49.0

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: 2003-04 = 100. **c** As at 30 June. **na** Not available.

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

11 Average Australian exchange rates with selected countries ^a

	Japan ¥/A\$	United States US\$/A\$	New Zealand NZ\$/A\$	Korea, Rep. of ^b won/A\$	United Kingdom £/A\$	Euro €/A\$	Trade weighted index ^c
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	565.3	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	50.1
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	53.2
2003-04	78.56	0.7113	1.130	841.0	0.409	0.597	61.2
2004-05	80.14	0.7513	1.077	807.4	0.404	0.590	62.7

^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.

12 Exchange rates of selected countries ^a

	Real effective exchange rates ^b						
	Australia A\$/US\$	Japan ¥/US\$	Euro €/US\$	United Kingdom £/US\$	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	105.0	76.8	77.8
1979	0.8945	219.14	na	0.4714	103.6	67.8	79.1
1980	0.8776	226.74	na	0.4299	105.5	60.7	77.8
1981	0.8701	220.54	na	0.4931	116.5	65.2	70.6
1982	0.9829	249.08	na	0.5713	129.0	57.7	71.7
1983	1.1082	237.51	na	0.6592	130.7	61.5	74.2
1984	1.1369	237.52	na	0.7483	137.9	62.8	73.0
1985	1.4269	238.54	na	0.7714	143.1	62.4	74.1
1986	1.4906	168.52	na	0.6817	118.3	78.4	82.9
1987	1.4268	144.64	na	0.6102	103.4	82.3	90.0
1988	1.2752	128.15	na	0.5614	97.5	87.6	91.1
1989	1.2618	137.96	na	0.6099	98.5	83.8	90.8
1990	1.2799	144.79	na	0.5603	90.6	75.5	97.9
1991	1.2835	134.71	na	0.5652	88.0	81.0	97.0
1992	1.3600	126.65	na	0.5664	86.2	83.5	101.7
1993	1.4703	111.20	na	0.6658	89.3	99.5	108.0
1994	1.3667	102.21	na	0.6529	87.6	105.6	111.6
1995	1.3486	94.06	na	0.6335	80.8	110.8	120.9
1996	1.2772	108.78	na	0.6403	82.6	94.3	119.6
1997	1.3440	120.99	na	0.6106	87.1	89.7	111.8
1998	1.5888	130.91	na	0.6037	92.4	83.6	109.3
1999	1.5496	113.91	0.939	0.6180	91.6	94.4	106.0
2000	1.7172	107.77	1.085	0.6596	100.0	100.0	100.0
2001	1.9319	121.53	1.118	0.6945	103.5	89.2	99.5
2002	1.8386	125.39	1.063	0.6661	104.5	80.0	98.6
2003	1.5340	115.00	0.880	0.6119	96.1	76.4	100.8
2004	1.3569	108.00	0.800	0.5459	88.0	76.3	99.4

^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	2.6	3.1	9.5	4.6

^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	15.7
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	3.2
1990	2.4	0.9	4.2	5.2	0.0	1.6	5.5	8.9
1991	-3.6	-1.5	1.9	3.5	-3.3	-0.4	12.8	9.6
1992	0.3	2.8	-5.7	-2.4	0.4	-0.3	21.2	5.9
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	11.9
1996	3.7	4.3	2.3	0.2	1.4	2.5	13.1	8.4
1997	2.0	7.3	3.5	3.2	1.4	4.8	11.3	4.7
1998	3.0	5.8	-6.6	3.7	1.0	1.8	8.9	-6.5
1999	3.3	4.5	0.3	1.2	1.2	3.0	8.5	24.2
2000	5.4	4.3	5.4	5.6	1.9	4.9	11.4	16.8
2001	0.1	-3.6	-6.3	0.2	-1.6	-2.6	9.9	0.7
2002	2.5	-0.3	-1.1	-1.0	-2.5	-0.4	12.6	8.1
2003	1.0	-0.0	3.0	0.4	-0.1	0.7	17.0	5.0
2004	-0.1	4.2	5.3	3.0	0.5	3.6	16.7	10.4

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	Japan	Total Euro Area ^c	United States		Japan	
	%	%	%	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

^a Percentage change in consumer price indexes. ^b Period average: United States – 3 month Treasury bill rate and 10 year government bond yield; Japan – 3 month certificate of deposit rate and average government bond yield. ^c Prior to 1985 based on total OECD statistical definition. Post 1985 based on Euro area statistical definition. **na** Not available.

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

16 Population in selected countries and regions ^a

	Australia million	United States million	European Union ^b million	Japan million	China million	Other East Asia ^c million	World ^d million
1960	10.3	186.2	296.3	94.1	657.5	187.6	3 021.5
1961	10.5	189.1	298.9	95.0	669.4	192.5	3 084.8
1962	10.8	192.0	301.6	95.9	682.4	197.5	3 148.0
1963	11.0	194.7	304.4	96.9	696.6	202.6	3 211.3
1964	11.3	197.3	307.2	97.9	712.1	207.8	3 274.6
1965	11.5	199.8	309.7	98.9	729.2	213.1	3 337.8
1966	11.8	202.1	312.0	99.9	747.8	218.6	3 409.7
1967	12.0	204.2	314.1	100.9	767.7	224.3	3 481.5
1968	12.3	206.2	316.1	101.9	788.5	230.0	3 553.4
1969	12.5	208.2	317.9	103.1	809.7	235.9	3 625.3
1970	12.7	210.1	319.8	104.3	830.7	241.8	3 697.1
1971	12.9	212.1	321.6	105.7	851.4	247.7	3 773.1
1972	13.1	214.1	323.3	107.2	871.9	253.7	3 849.1
1973	13.3	216.1	325.0	108.7	891.6	259.8	3 925.0
1974	13.4	218.1	326.6	110.2	910.4	265.9	4 001.0
1975	13.6	220.2	328.0	111.5	927.8	272.2	4 077.0
1976	13.8	222.2	329.4	112.8	943.8	278.5	4 150.5
1977	14.0	224.3	330.8	113.9	958.4	284.8	4 223.9
1978	14.2	226.5	332.0	114.9	972.1	291.2	4 297.4
1979	14.4	228.7	333.1	115.9	985.5	297.7	4 370.9
1980	14.6	230.9	334.0	116.8	998.9	304.1	4 444.4
1981	14.8	233.3	334.7	117.7	1 012.4	310.5	4 524.7
1982	15.0	235.7	335.4	118.6	1 026.0	316.9	4 605.1
1983	15.2	238.1	336.0	119.4	1 040.0	323.3	4 685.5
1984	15.4	240.6	336.6	120.1	1 054.6	329.7	4 765.8
1985	15.7	243.1	337.4	120.8	1 070.2	336.0	4 846.3
1986	15.9	245.5	338.3	121.5	1 086.8	342.3	4 934.0
1987	16.1	247.9	339.3	122.1	1 104.3	348.5	5 021.7
1988	16.4	250.4	340.5	122.6	1 122.1	354.6	5 109.4
1989	16.6	252.9	341.7	123.1	1 139.3	360.8	5 197.1
1990	16.9	255.5	343.0	123.5	1 155.3	367.0	5 284.8
1991	17.1	258.2	344.5	124.0	1 169.9	373.2	5 371.2
1992	17.3	261.0	346.0	124.4	1 183.3	379.4	5 457.5
1993	17.5	263.8	347.5	124.8	1 195.7	385.6	5 543.8
1994	17.7	266.7	348.9	125.1	1 207.6	391.7	5 630.1
1995	17.9	269.6	350.3	125.5	1 219.3	397.8	5 716.4
1996	18.2	272.5	351.5	125.8	1 231.0	403.8	5 804.8
1997	18.4	275.4	352.5	126.1	1 242.4	409.8	5 891.8
1998	18.6	278.4	353.5	126.5	1 253.5	415.7	5 901.1
1999	18.8	281.3	354.5	126.8	1 264.1	421.5	5 978.4
2000	19.1	284.2	355.7	127.0	1 274.0	427.3	6 111.4
2001	19.3	287.0	357.0	127.3	1 283.2	432.9	6 203.6
2002	19.5	289.8	358.4	127.5	1 291.8	438.6	6 297.5
2003	19.7	292.6	359.8	127.7	1 300.0	444.1	6 392.8
2004	19.9	295.4	361.2	127.9	1 308.0	449.6	6 489.8

^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 ^{a b}	Index of prices received ^c	Index of prices paid ^c	Farmers' terms of trade ^{c d}	Consumer price index ^b
1961-62	2 734	1 781	953	178	24.7	11.7	211.2	9.6
1962-63	3 013	1 865	1 148	210	25.4	11.7	217.1	9.6
1963-64	3 424	1 953	1 471	267	27.4	11.7	234.5	9.7
1964-65	3 450	2 093	1 357	237	26.7	12.1	220.0	10.1
1965-66	3 316	2 250	1 066	178	27.4	12.6	217.3	10.4
1966-67	3 825	2 415	1 410	233	27.4	13.1	209.6	10.7
1967-68	3 342	2 472	870	138	26.7	13.5	198.5	11.1
1968-69	3 947	2 673	1 274	198	26.0	13.5	193.4	11.4
1969-70	3 732	2 668	1 064	159	25.4	13.5	188.4	11.7
1970-71	3 569	2 713	856	121	23.9	13.9	171.6	12.2
1971-72	3 971	2 793	1 178	157	26.0	14.9	175.3	13.1
1972-73	4 962	3 103	1 859	235	35.6	16.2	219.9	13.9
1973-74	6 412	3 594	2 818	319	43.1	18.4	234.3	15.7
1974-75	5 874	4 196	1 678	161	36.9	23.4	158.0	18.3
1975-76	6 170	4 832	1 338	113	39.0	27.0	144.3	20.7
1976-77	6 755	5 278	1 477	110	42.5	30.1	141.1	23.6
1977-78	6 984	5 742	1 242	83	44.5	33.3	133.8	25.8
1978-79	10 204	6 629	3 575	230	54.0	35.5	152.1	27.9
1979-80	11 764	7 761	4 003	230	64.3	39.5	162.7	30.8
1980-81	11 580	8 739	2 841	149	68.4	44.9	152.2	33.6
1981-82	12 704	10 205	2 499	118	67.7	49.9	135.7	37.1
1982-83	11 708	11 403	305	10	71.1	55.3	128.6	41.4
1983-84	15 396	12 255	3 141	129	74.6	59.8	124.8	44.2
1984-85	15 377	12 896	2 481	100	76.6	63.4	121.0	46.1
1985-86	15 381	14 051	1 330	51	76.6	68.3	112.2	50.0
1986-87	17 282	15 386	1 896	56	82.8	74.2	111.5	54.7
1987-88	19 962	16 727	3 235	101	99.5	77.4	128.5	58.7
1988-89	22 846	18 330	4 516	136	112.4	84.4	133.2	63.0
1989-90	23 591	20 008	3 583	99	109.3	90.1	121.3	68.1
1990-91	21 207	20 168	1 039	23	93.6	90.9	102.9	71.6
1991-92	21 168	19 392	1 776	34	94.5	90.8	104.1	73.0
1992-93	21 990	19 340	2 650	65	93.7	89.5	104.7	73.7
1993-94	23 647	20 187	3 460	79	97.4	91.1	106.8	75.1
1994-95	23 794	21 708	2 086	52	112.0	95.0	118.0	77.5
1995-96	27 515	22 913	4 602	105	111.2	99.5	111.8	80.8
1996-97	28 449	23 910	4 540	107	101.6	99.4	102.2	81.8
1997-98	28 526	23 885	4 641	105	100.0	100.0	100.0	81.8
1998-99	28 844	24 511	4 333	98	96.1	99.9	96.2	82.9
1999-00	30 476	25 223	5 253	108	96.3	103.2	93.3	84.9
2000-01	34 432	26 657	7 776	158	108.5	110.0	98.6	89.9
2001-02	39 485	27 258	12 227	217	122.5	112.8	108.6	92.5
2002-03	32 495	27 767	4 728	84	122.6	121.2	101.2	95.4
2003-04	36 831	29 232	7 598	125	116.5	123.0	94.7	97.6
2004-05	36 343	29 747	6 596	100	118.1	127.4	92.7	100.0

a Obtained by deflating the net value of farm production by the consumer price index. **b** base year 2004-05 = 100. **c** ABARE revised the method for calculating farm, price and production indexes in October 1999. The indexes for the different groups of farm commodities are now calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100. **d** Ratio of index of prices received by farmers to index of prices paid by farmers.

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

18 Volume of Australian farm production

	Crops			Livestock			
	Grains and oilseeds index	Other crops index	Total crops index	Livestock slaughterings index	Livestock products index	Total livestock index	Total farm 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	138.7	113.5	123.0	104.4	93.0	99.9	112.1
2004-05	103.7	125.6	114.7	109.2	94.9	103.6	109.9

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	13 203	22 846
1989-90	4 462	5 455	9 917	5 867	7 806	13 673	23 591
1990-91	3 467	5 654	9 121	5 732	6 354	12 086	21 207
1991-92	4 021	6 143	10 164	5 751	5 253	11 004	21 168
1992-93	4 621	6 117	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	5 481	13 425	30 476
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	6 791	18 225	39 485
2002-03	5 399	9 981	15 380	10 676	6 439	17 115	32 495
2003-04	9 837	10 519	20 356	10 896	5 578	16 474	36 831
2004-05	7 409	11 097	18 506	11 930	5 907	17 837	36 343

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)

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Grains and oilseeds								
Wheat (including flour)	3 687	3 467	3 481	4 197	4 612	3 109	3 475	3 488
Barley (including malt)	726	877	822	1 101	1 278	954	1 239	1 274
Oats	30	38	27	22	37	66	66	36
Sorghum	50	46	81	122	109	17	61	96
Rice	402	417	386	369	286	113	68	55
Lupins	193	155	235	166	109	57	148	71
Peas a	67	63	90	112	157	43	56	33
Chickpeas	118	50	101	113	167	52	71	65
Canola	256	558	638	544	572	289	453	397
Cottonseed	68	91	122	137	148	82	62	55
Other oilseeds b	21	25	29	28	20	21	25	33
Total	5 617	5 785	6 013	6 910	7 495	4 804	5 723	5 603
Industrial crops								
Raw cotton c	1 386	1 559	1 407	1 958	1 547	1 153	982	771
Sugar	1 744	1 385	1 095	1 178	1 430	1 220	982	1 370
Wine	812	991	1 347	1 614	1 970	2 386	2 545	2 750
Total	3 941	3 934	3 849	4 751	4 948	4 759	4 509	4 891
Other crops	2 300	2 487	2 780	3 145	3 432	3 420	3 096	3 186
Total crops	11 859	12 206	12 643	14 805	15 874	12 983	13 329	13 680
Meat and live animals for slaughter								
Beef and veal	2 610	2 863	3 119	4 007	4 189	3 756	3 793	4 584
Live cattle	333	343	433	482	526	562	314	335
Mutton	369	309	326	416	490	346	379	418
Lamb	275	305	369	508	626	554	636	701
Live sheep	193	182	180	258	392	408	266	207
Pig meat	52	71	159	186	265	256	181	150
Poultry meat	18	23	21	26	26	22	20	20
Canned meat	47	53	50	16	39	17	12	12
Total	3 850	4 095	4 606	5 882	6 514	5 905	5 590	6 413
Wool								
Greasy d	2 336	1 457	1 796	2 310	2 271	2 266	1 850	1 994
Semiprocessed	1 378	994	1 031	1 289	1 119	991	632	505
Skins	307	132	136	298	297	288	296	339
Total d	4 020	2 583	2 963	3 897	3 687	3 545	2 778	2 838
Dairy products								
Butter	238	294	291	291	297	224	182	188
Cheese	607	695	807	950	1 033	800	738	875
Casein	43	67	81	89	77	43	48	56
Skim milk powder	444	496	478	694	698	406	386	420
Wholemilk powder	275	364	403	580	571	380	321	324
Other dairy products	330	358	416	476	550	549	534	554
Total	1 937	2 274	2 476	3 081	3 226	2 401	2 210	2 418
Other livestock exports	1 417	1 444	1 452	1 884	1 771	1 977	2 224	2 329
Total livestock exports	11 223	10 396	11 497	14 743	15 198	13 827	12 801	13 998
Total farm exports	23 082	22 603	24 139	29 549	31 073	26 810	26 129	27 678

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa								
Egypt	314	579	500	544	721	333	657	229
South Africa	200	172	158	201	138	132	129	124
Total	918	1 169	992	1 293	1 544	906	1 175	728
Americas								
United States	1 494	1 684	2 044	2 890	3 335	2 956	3 018	3 136
Canada	468	452	435	541	481	511	374	487
Total	2 262	2 483	2 778	3 860	4 244	3 837	3 768	3 864
North Asia								
China	1 535	1 333	1 870	2 213	2 356	2 159	2 241	2 798
Chinese Taipei	714	741	752	806	771	749	655	705
Japan	4 012	3 964	4 168	4 849	4 298	3 946	4 332	5 285
Korea, Rep. of	983	1 099	1 168	1 442	1 403	1 324	1 280	1 676
Total	7 745	7 590	8 431	9 909	9 457	8 713	8 728	10 826
South East Asia								
Indonesia	1 204	1 071	1 069	1 561	1 605	1 453	1 411	1 511
Malaysia	927	789	753	1 076	777	621	842	992
Phillipines	495	599	631	702	631	485	379	345
Singapore	398	428	537	572	612	549	451	539
Thailand	452	515	527	672	598	545	506	496
Total	3 633	3 600	3 747	4 876	4 520	3 894	3 802	4 139
South Asia	1 485	1 186	1 268	1 216	1 228	654	777	820
Middle East	1 576	1 873	2 003	2 897	3 272	2 083	295	1 958
Europe								
European Union a	2 874	2 518	2 588	3 390	3 068	2 868	2 643	2 653
Russian Federation	141	31	22	74	88	65	76	116
Total	3 075	2 596	2 641	3 474	3 170	2 988	2 750	2 821
Oceania	904	926	988	1 138	1 205	1 284	1 233	1 350
New Zealand	590	628	680	804	870	946	924	1 023
Other b	1 484	1 180	1 292	884	2 433	2 451	3 601	1 172
Total	23 082	22 603	24 139	29 549	31 073	26 810	26 129	27 678

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

	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96
Crops sector									
Grains and oilseeds									
Wheat	85.2	110.6	102.0	69.0	103.8	93.4	88.3	124.9	136.3
Barley	85.6	109.2	111.2	75.3	86.2	92.8	79.0	135.1	143.7
Sorghum	73.5	89.3	85.6	80.3	83.7	94.1	85.9	112.3	119.0
Oats	81.0	92.8	79.4	72.1	78.8	78.9	65.6	131.3	112.9
Lupins	93.4	105.4	118.9	115.0	88.8	106.1	96.2	95.3	106.7
Canola	58.8	76.8	66.5	62.3	61.8	69.7	77.3	80.0	81.4
Total	87.9	107.7	102.1	75.7	95.3	94.2	89.9	120.9	126.1
Cotton	71.0	79.3	98.9	104.6	88.3	91.8	98.6	123.5	121.3
Sugar	84.5	96.5	109.8	102.6	90.4	89.6	102.8	112.7	110.2
Hay	64.4	74.1	80.3	95.1	95.6	77.3	78.3	108.8	102.3
Fruit	72.6	88.2	85.5	90.6	95.1	85.4	87.0	101.1	103.0
Wine grapes	49.6	49.5	59.6	46.7	53.8	52.5	58.0	72.8	82.4
Vegetables	79.6	112.4	122.5	86.5	89.8	94.3	100.6	115.1	115.2
Total crops sectors	83.4	102.1	103.2	84.9	93.4	91.9	92.5	115.2	118.2
Livestock sector									
Livestock for slaughter									
Cattle	109.1	119.9	129.2	123.2	117.9	117.0	134.1	126.1	104.9
Lambs	67.1	70.1	64.2	52.8	58.4	85.2	97.6	89.9	116.9
Sheep	55.8	69.3	29.4	8.8	21.4	39.0	48.4	58.3	85.9
Live sheep for export	86.8	79.2	78.0	34.7	47.8	55.7	66.8	82.8	98.5
Pigs	93.0	105.2	106.5	114.0	101.0	98.4	95.3	96.4	122.4
Poultry	85.6	98.6	100.4	100.7	93.6	97.7	101.7	98.2	99.6
Total	96.2	105.9	108.7	102.9	99.1	102.4	113.9	109.9	106.5
Livestock products									
Wool	153.2	156.5	131.9	99.7	86.7	75.1	75.2	115.4	93.3
Milk	72.1	82.9	88.8	90.7	93.2	102.3	99.2	96.5	108.2
Eggs	98.1	107.5	99.0	96.4	92.0	95.3	91.4	88.6	101.7
Honey	62.7	58.8	60.0	71.1	80.8	82.3	76.8	81.7	90.2
Total	127.0	133.3	118.7	98.1	90.6	87.4	86.1	105.8	100.8
Store and breeding stock	83.0	92.3	88.6	82.0	79.7	78.8	95.0	96.7	96.1
Total livestock sector	110.6	118.7	112.4	99.1	93.7	93.6	99.9	107.0	103.2
Total prices received	99.5	112.4	109.3	93.6	94.5	93.7	97.4	112.0	111.2

Continued

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

	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Crops sector									
Grains and oilseeds									
Wheat	107.5	100.0	94.5	98.7	117.4	132.3	134.4	109.1	108.5
Barley	116.6	100.0	87.7	107.9	125.1	130.8	159.9	105.9	113.1
Sorghum	106.7	100.0	88.1	72.6	85.1	102.2	120.9	93.8	104.1
Oats	100.3	100.0	63.7	77.5	96.5	128.2	160.3	101.1	140.6
Lupins	111.8	100.0	72.9	74.3	104.9	127.7	149.0	120.4	98.0
Canola	75.6	100.0	98.7	80.1	79.6	99.7	100.9	104.4	90.8
Total	105.1	100.0	92.0	94.5	108.7	123.7	134.0	105.2	106.7
Cotton	103.1	100.0	88.4	97.4	106.1	92.7	100.1	88.2	87.0
Sugar	100.0	100.0	93.2	72.2	70.4	88.5	83.2	76.3	74.9
Hay	93.6	100.0	98.4	100.0	110.7	104.2	155.0	125.0	128.0
Fruit	109.6	100.0	108.7	100.0	102.0	117.8	108.9	123.9	114.3
Wine grapes	88.5	100.0	109.7	99.3	108.7	110.2	100.5	96.2	87.5
Vegetables	100.9	100.0	108.2	100.4	107.5	104.3	123.8	124.6	122.2
Total crops sectors	104.1	100.0	96.9	94.9	104.7	113.6	118.7	106.2	104.1
Livestock sector									
Livestock for slaughter									
Cattle	93.0	100.0	105.6	119.3	144.2	167.7	145.0	160.4	174.2
Lambs	121.4	100.0	101.9	94.8	104.1	167.2	176.7	190.1	174.9
Sheep	85.0	100.0	83.7	69.5	117.9	204.7	185.4	230.3	186.3
Live sheep for export	92.7	100.0	94.0	95.3	111.4	156.1	179.3	178.0	164.1
Pigs	123.2	100.0	94.2	110.2	113.7	123.6	109.7	109.4	120.3
Poultry	107.2	100.0	94.1	90.2	90.1	93.0	98.5	97.7	101.6
Total	101.0	100.0	100.9	108.4	126.0	151.5	139.1	149.2	156.3
Livestock products									
Wool	91.9	100.0	79.2	81.4	98.3	113.9	153.2	116.4	117.0
Milk	103.4	100.0	95.5	87.9	97.0	110.5	90.7	93.4	103.9
Eggs	105.2	100.0	85.3	84.0	79.1	82.8	92.4	89.2	85.4
Honey	101.6	100.0	101.1	94.3	94.3	115.0	130.5	131.3	129.4
Total	98.1	100.0	87.5	84.5	95.6	109.0	114.0	101.4	106.9
Store and breeding stock	89.4	100.0	100.9	105.0	126.0	145.3	125.9	144.0	155.5
Total livestock sector	98.8	100.0	95.2	97.9	113.0	133.4	128.1	129.3	135.7
Total prices received	101.6	100.0	96.1	96.3	108.5	122.5	122.6	116.5	118.1

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
1961-62	6.0	2.7	474.5	12.99	5.05	157.42
1962-63	6.7	2.6	476.6	13.47	5.08	158.34
1963-64	6.7	2.7	479.4	13.78	4.62	164.68
1964-65	7.3	2.8	481.9	13.65	4.54	170.32
1965-66	7.1	3.0	486.3	12.98	4.41	157.30
1966-67	8.4	3.4	487.0	13.36	4.34	163.95
1967-68	9.1	3.0	489.6	14.42	4.24	166.64
1968-69	10.8	3.5	490.6	15.93	4.09	174.35
1969-70	9.5	3.7	494.7	17.54	4.01	179.83
1970-71	6.5	4.7	497.2	19.83	3.90	177.53
1971-72	7.1	5.3	499.5	22.89	3.82	162.71
1972-73	7.6	4.6	499.8	24.65	3.79	139.88
1973-74	8.9	4.3	500.3	26.59	3.57	145.05
1974-75	8.3	4.2	499.9	28.52	3.53	151.53
1975-76	8.6	4.7	500.7	29.26	3.41	148.49
1976-77	9.0	4.7	491.5	27.83	3.12	135.23
1977-78	10.0	5.3	489.4	25.73	2.90	131.33
1978-79	10.2	5.6	493.2	23.68	2.73	134.10
1979-80	11.2	5.2	495.6	22.82	2.70	135.89
1980-81	11.3	5.2	495.4	21.82	2.67	134.31
1981-82	11.9	5.9	490.8	21.23	2.66	137.87
1982-83	11.5	5.7	483.8	19.21	2.64	130.40
1983-84	12.8	7.3	488.6	18.85	2.69	135.19
1984-85	12.0	7.3	489.2	19.44	2.71	145.50
1985-86	11.7	7.1	468.3	20.14	2.66	150.28
1986-87	11.1	6.4	471.0	18.75	2.56	149.06
1987-88	9.0	7.0	472.0	18.73	2.50	152.35
1988-89	8.8	6.5	466.9	19.33	2.48	161.49
1989-90	9.0	5.8	464.3	20.07	2.46	170.17
1990-91	9.2	6.2	462.8	21.23	2.43	163.24
1991-92	7.2	7.1	466.0	21.45	2.43	148.20
1992-93	8.3	7.0	460.1	21.56	2.50	138.10
1993-94	8.4	7.7	469.1	23.08	2.68	132.57
1994-95	7.9	7.5	463.3	22.99	2.74	120.86
1995-96	9.2	8.4	465.2	23.57	2.81	121.12
1996-97	10.9	8.5	462.2	23.74	2.96	120.23
1997-98	10.4	8.9	463.8	23.78	3.08	117.49
1998-99	11.5	9.4	453.7	22.82	3.22	115.38
1999-00	12.2	9.1	455.5	24.45	3.14	118.55
2000-01	12.1	9.5	455.7	24.50	3.22	110.90
2001-02	11.5	9.7	447.0	24.74	3.13	106.20
2002-03	11.2	9.5	439.5	23.62	3.05	99.25
2003-04	13.1	10.2	440.1	24.41	3.05	101.29
2004-05	12.0	8.5	na	24.74	3.05	102.66

^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	na	170.5	185.7	10.0	366.2	

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	16 340	34 364
2002-03	4 487	1 363	5 655	3 545	14 901	29 951
2003-04	5 094	1 123	5 758	2 778	14 188	28 941
2004-05	5 157	1 645	6 944	2 838	14 099	30 683

^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 Summary of operations of mineral resource establishments ^a

	Number of establishments at 30 June no.	Employment 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	6 096	59 610	3 613	4 324	na	35 453
2002-03	na	60 806	6 694	63 473	4 298	4 370	na	37 644
2003-04	na	64 983	na	na	na	na	na	na
2004-05	na	na	na	na	na	na	na	na

^a From 1992-93, the classification of census units is based on the 1993 edition of the Australian and New Zealand Standard Industrial Classification (ANZSIC). Before 1992-93, classification of census units was based on the Australian Standard Industrial Classification (ASIC); ANZSIC has replaced the following editions of ASIC: the 1983 edition (used since the 1982-83 census), the 1978 edition (used since the 1977-78 census) and the 1969 edition (used since the 1968-69 census). ^b Includes working proprietors. ^c Excludes amounts drawn by working proprietors. ^d Data for 1974-75 to 1987-88 and 1989-90 cover ASIC subdivisions 11-15; data for 1988-89, 1990-91 and 1991-92 cover ASIC subdivisions 11-14; data for 1992-93 cover ANZSIC subdivisions 11-14 (equivalent to ASIC subdivisions 11-15); and data for 1993-94 and 1994-95 cover ANZSIC subdivisions 11-13 (equivalent to ASIC subdivisions 11-14). Data from 1996-97 based on ABS mining collection, equivalent to ANZSIC subdivisions 11-13. **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.

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

	Gross value of minerals produced ab					Exploration expenditure de	Mineral royalties paid to governments be
	Metallics	Coal and petroleum	Construction materials c	Non-metallics	Total		
	\$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 h	14 482	1 365	554
1984	4 389 f	11 717	706 g	327 h	17 457 i	1 249	586
1985	5 479 j	15 193	826 g	361 k	22 108 i	1 230	735
1986	5 963 j	11 961	894 g	596 l	19 720 i	1 208	942
1987	7 146 f	12 147 m	856 g	637 n	21 207 i	862	800
1988	8 310	10 221	973 g	777	20 281	1 295	821
1988-89	8 760 o	10 440 o	1 018 g	845 q	21 063 q	1 336	2 113
1989-90	11 110	12 700	1 399 g	924	26 133	1 190	2 156
1990-91	10 910 o	15 361 o	na	na	26 293	1 184	2 413
1991-92	10 957 o	15 010 o	na	na	25 985	1 078	2 167
1992-93	10 920 o	15 801 o	1 405 g	1 065	26 721	1 244	2 327
1993-94	10 861 o	14 841 o	na	na	25 702	1 299	2 033
1994-95	11 715 o	15 023 o	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	2 142
1997-98	14 696	19 517	na	na	34 213	2 048	2 298
1998-99	15 228	18 955	na	na	34 182	1 706	1 923
1999-00	14 234	20 065	na	na	34 299	1 399	2 448
2000-01	18 748	26 245	871	1 488	48 220	1 727	na
2001-02	17 951	31 138	1 240	1 443	54 627	1 523	na
2002-03	19 043	29 701	1 345	1 631	54 533	1 728	na
2003-04	na	na	na	na	na	1 731	na
2004-05	na	na	na	na	na	2 073	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; and from 1990-91, data compiled by ABS from annual Mining Census data. 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 Excludes bauxite for Western Australia. g Excludes Australian Capital Territory. h Excludes talc and limestone for Western Australia. i Includes confidential items not separately included in the listed categories. j Excludes bauxite for Western Australia and iron oxide, molybdenum and tin-copper concentrate for Tasmania. k Excludes limestone and salt for Queensland. l Excludes salt for Victoria and limestone and talc for Western Australia. m Excludes coal for Western Australia. n Excludes salt for Victoria and limestone, silica and talc for Western Australia. o 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.

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

	Energy minerals			Metallic minerals					
	Petroleum	Other a	Total	Gold	Base		Total	Other	Total
					metals b	Other			
	\$m	\$m	\$m	\$m	\$m	metallics	\$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	47	1 728
2003-04	944	92	1 036	397	152	na	na	143	1 731
2004-05	1 045	148	1 192	392	261	na	na	228	2 073

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.

29 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

^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.

30 Australian production of mineral commodities

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Bauxite	Mt	46	51	55	54	54	56	58
Coal								
Black								
Salable	Mt	225	239	258	273	275	286	300
Raw	Mt	284	299	321	344	349	362	387
Brown	Mt	67	67	68	69	69	70	68
Copper in mine products	kt	691	796	876	876	883	811	905
Diamonds	'000 ct	35 948	29 672	22 475	30 676	32 006	24 310	32 446
Gold in mine products	t	303	299	296	265	278	267	265
Iron ore and concentrate	Mt	153 s	160	176	185	199	221	252
Lead in mine products	kt	661	690	724	744	695	677	682
Manganese ore and concentrate	kt	1 630	1 755	1 948	1 850	2 472	3 062	3 554
Nickel in mine products	kt	127	143	195	193	183	185	198
Petroleum								
Crude oil and condensate	ML	27 897	37 447	38 705	36 100	33 321	27 876	25 368
LPG (naturally occurring)	ML	4 368	4 832	4 558	4 647	4 681	4 639	4 625
Natural gas and ethane	GL	32	33	34	36	37	37	41
Salt	kt	9 203	9 610	9 492	9 233	10 438	10 705	12 416
Silver in mine products	t	1 593	1 889	2 021	2 106	1 905	2 056	2 330
Tin in mine products	t	9 877	9 820	10 016	8 173	6 222	1 533	2 095
Titanium minerals								
Ilmenite	kt	2 156	2 134	2 092	1 843	2 069	1 910	2 006
Rutile	kt	214	185	209	207	208	154	174
Synthetic rutile	kt	569	566	650	612	673	696	751
Titanium dioxide pigment	kt	164	172	181	186	189	196	203
Uranium	t	6 387	8 217	9 549	7 823	9 172	9 569	10 964
Zinc in mine products	kt	1 142	1 265	1 483	1 490	1 529	1 355	1 352
Zircon concentrate	kt	385	372	377	389	458	448	432

s ABARE estimate.

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

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
	\$m	\$m	\$m	\$m	\$m	\$m
Coal						
Black	11 611	10 228	11 621	13 627	13 078	12 496
Brown	328	na	520	533	535	na
Construction materials	na	na	871	1 240	1 345	na
Copper ore and concentrate	1 397	1 503	2 303	1 987	2 269	na
Diamonds	na	na	634	505	785	na
Gemstones						
Opals	na	na	98	85	71	na
Sapphires	na	na	12	6	3	na
Gold bullion	4 532	3 851	1 189	4 485	4 798	na
Gold ore and concentrate	na	na	3 240	na	na	na
Iron ore and concentrate	4 307	3 605	4 938	5 126	5 223	na
Lead ore and concentrate	525	469	849	696	906	na
Manganese ore and concentrate	na	na	210	199	199	na
Nickel ore and concentrate	na	na	1 865	1 624	1 972	na
Petroleum						
Crude oil and condensate	} 8 118	} 11 295	} 12 127	} 12 641	} 13 372	} 13 940
LPG (naturally occurring)						
Natural gas and ethane						
Salt	na	na	264	273	260	na
Tin ore and concentrate	na	na	176	na	na	na
Titanium minerals						
Ilmenite ^b	212	288	169	129	137	na
Rutile	182	184	117	111	87	na
Uranium	266	325	423	367	413	414
Zinc ore and concentrate	739	934	1 768	1 233	1 362	na
Zircon concentrate	179	284	202	223	262	na
Total ^c	34 182	34 299	52 270	54 627	54 533	52 704 ^s

^a Gross value is ex mine. Data in this table are not on the same basis as data shown in the previous table. ^b Excludes value of ilmenite use for beneficiated ilmenite. ^c 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.

32 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	7 862	4 566	11 876	26 696	1 697	471	1 460	54 627
2002-03	6 765	4 307	12 129	27 858	1 685	473	1 349	54 533
2003-04	na	na	12 135	26 351	1 654	545	1 350	52 704 ^s

^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). ^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.

33 Australian smelter and refinery production of mineral commodities

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Alumina	kt	13 581	14 207	15 037	16 098	16 417	16 413	16 690	17 161
Aluminium	kt	1 589	1 686	1 742	1 788	1 809	1 855	1 877	1 890
Blister copper a	kt	223	234	387	419	456	469	390	433
Copper	kt	283	306	477	517	561	537	459	478
Gold									
Australian origin	t	276	287	313	296	271	251	246	227
Overseas origin	t	18	20	12	16	20	65	80	76
Lead bullion a	kt	171	157	165	153	201	181	143	153
Lead b	kt	185	199	233	215	275	267	247	234
Nickel matte	kt	103	79	98	100	95	101	110	115
Nickel c	kt	79	77	101	121	131	130	125	128
Petroleum									
Automotive diesel oil	ML	13 183	12 968	12 737	13 212	13 064	13 335	12 544	12 822
Automotive gasoline	ML	18 589	18 705	18 652	17 887	18 000	17 984	17 375	17 913
Aviation turbine fuel	ML	5 423	5 218	5 539	5 836	5 390	5 149	4 964	5 325
Fuel oil	ML	1 662	1 634	1 839	1 951	1 684	1 441	1 105	1 092
Raw steel d	kt	9 143	8 549	8 053	8 003	8 311	9 399	9 471	7 556
Silver	t	227	410	543	532	616	672	619	722
Tin	t	650	595	602	1 039	829	708	553	445
Zinc	kt	304	323	405	534	572	570	502	464

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.

34 Prices of mineral commodities

	Alumina av. export unit value AS\$/t	Aluminium (high grade) LME cash US\$/t	Gold London AM fix US\$/oz	Iron ore a av. export unit value AS\$/t	Steaming coal av. export unit value AS\$/t	Coking coal av. export unit value AS\$/t	Crude oil world trade weighted average US\$/bbl	Uranium 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	287.87	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	35.49	59.55	86.12	41.18	22.20
	Copper (high grade) LME cash US\$/t	Lead LME cash US\$/t	Zinc (high grade) LME cash US\$/t	Silver c London fix US\$/troy oz	Nickel LME cash US\$/t	Ilmenite d av. export unit value AS\$/t	Rutile e av. export unit value AS\$/t	Zircon f av. export unit value AS\$/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	1 508.50	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	2 333.33	700.06	961.97	579.25	12 263.74	104.56	647.39	586.22
2004-05	3 149.79	964.08	1 170.92	694.94	14 971.10	99.29	717.20	746.27

a Lump and fines. **b** Nuexco exchange value to 1997-98; Ux Consulting Industry spot price from 1998-99. **c** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **d** All grades, bulk and bagged, before January 1992; bulk only thereafter. **e** All grades before August 1999; bagged only thereafter. **f** 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.

35 Exports and imports of Australian mineral resources

Exports a

	Metalliferous					Total \$m	Imports c \$m
	Coal, coke and briquettes \$m	Other mineral fuels \$m	ores and other minerals b \$m	Gold \$m	Other metals \$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	3 665
1989-90	5 932	2 068	8 348	3 764	4 820	24 932	4 322
1990-91	6 480	3 595	8 932	4 136	4 887	28 030	4 968
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	6 413	7 117	38 914	8 966
1999-00	8 336	9 082	12 361	5 164	9 121	44 063	12 060
2000-01	10 844	13 464	15 839	5 229	11 638	57 013	14 245
2001-02	13 430	10 940	15 286	5 300	10 995	55 951	13 548
2002-03	11 987	11 049	15 312	5 718	10 967	55 033	16 082
2003-04	11 001	8 766	15 419	5 839	11 348	52 373	15 386
2004-05	17 063	11 121	20 380	5 755	13 028	67 348	20 877

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.

36 Volume of Australian exports of mineral commodities

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Alumina	kt	10 536	11 059	11 654	12 721	13 091	13 168	13 572	14 073
Aluminium (ingot metal)	kt	1 233	1 365	1 364	1 471	1 490	1 551	1 546	1 512
Coal, black									
Coking	Mt	84	85	97	106	106	108	112	125
Steaming	Mt	79	84	79	88	92	100	107	106
Copper s	kt	441	529	582	694	749	687	652	701
Diamonds s	'000 ct	42 483	51 244	51 095	25 513	25 811	32 274	26 667	32 560
Gold, refined	t	428	421	330	302	280	282	315	309
Iron and steel									
Iron ore and pellets	Mt	142	135	149	157	156	181	195	228
Iron and steel	kt	3 347	3 332	2 941	2 931	3 297	3 589	3 818	2 249
Ferroalloys	kt	145	153	48	40	45	9	8	0
Lead s	kt	559	620	727	672	731	735	688	782
Magnesia	t	124 361	122 777	174 854	161 236	151 760	143 372	154 620	162 763
Manganese ore and concentrate s	kt	1 147	1 125	1 301	1 522	1 660	2 014	2 603	3 128
Petroleum									
Crude oil and other refinery feedstock	ML	14 785	14 291	20 877	24 044	23 936	20 950	17 526	15 731
LNG s	Mt	8	8	8	8	8	8	8	11
LPG	ML	2 824	2 486	2 857	2 785	3 211	3 194	2 916	2 844
Refinery products	ML	4 941	4 236	4 116	4 564	3 409	3 140	2 474	1 847
Salt	kt	8 444	8 710	8 389	8 636	8 912	10 172	10 285	12 128
Silver, refined bullion	t	257	399	447	450	547	511	415	517
Tin s	t	10 550	10 002	9 934	9 660	8 026	5 963	143	1 529
Titanium minerals									
Ilmenite concentrate a	kt	1 304	1 216	1 133	1 012	914	1 020	783	633
Leucoxene	kt	24	18	41	70	60	41	125	93
Rutile concentrate	kt	207	188	179	190	190	195	146	158
Synthetic rutile s	kt	476	381	369	443	398	456	470	520
Titanium dioxide pigment	kt	136	133	135	140	145	147	165	175
Uranium oxide (U ₃ O ₈)	t	6 415	5 989	8 025	9 722	7 367	9 593	9 099	11 249
Zinc s	kt	926	1 126	1 120	1 456	1 488	1 548	1 369	1 433
Zircon concentrate b	kt	396	364	374	375	388	445	426	428

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

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

37 Value of Australian exports of mineral commodities

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Bauxite s	120	135	185	196	136	159	125	123
Alumina a	2 887	2 910	3 471	4 507	4 114	3 660	3 781	4 383
Aluminium (ingot metal)	2 828	2 840	3 302	4 229	3 965	3 696	3 441	3 724
Coal, black								
Coking	5 742	5 472	5 184	6 597	8 038	7 448	6 510	10 758
Steaming	3 790	3 767	3 114	4 204	5 294	4 448	4 372	6 336
Copper b	1 194	1 366	1 616	2 286	2 159	2 005	2 166	3 059
Diamonds cs	538	598	601	634	512	789	531	650
Gems, other than diamonds	93	79	83	99	82	74	64	61
Gold, refined	6 242	6 317	4 803	4 887	4 950	5 133	5 510	5 523
Iron and steel								
Iron ore and pellets	3 791	3 844	3 779	4 903	5 160	5 342	5 277	8 101
Iron and steel	1 607	1 311	1 265	1 484	1 484	1 855	2 004	1 952
Lead b	492	537	607	637	729	657	728	1 040
Magnesia	57	46	45	53	56	52	51	54
Manganese ore and concentrate s	157	165	185	261	299	312	371	473
Nickel s	1 103	845	1 862	2 308	2 036	2 347	3 117	3 707
Petroleum								
Crude oil and other refinery feedstock	2 251	1 881	5 292	8 137	6 390	6 402	5 055	6 330
LNG	1 599	1 425	1 949	2 671	2 613	2 607	2 174	3 199
LPG	367	297	648	830	721	855	647	804
Refinery products	1 097	866	1 202	1 844	1 234	1 198	918	844
Salt	211	222	221	253	267	233	186	226
Silver d	94	112	129	142	163	136	118	161
Tin b	75	73	70	76	49	38	1	8
Titanium minerals								
Ilmenite concentrate e	139	142	151	154	138	135	82	63
Leucoxene concentrate	15	9	16	21	23	16	33	25
Rutile concentrate	160	148	131	161	167	149	94	114
Synthetic rutile s	274	251	226	313	296	293	253	308
Titanium dioxide pigment	346	387	404	494	460	428	399	422
Uranium oxide (U ₃ O ₈)	288	288	367	497	361	427	364	475
Zinc b	988	1 133	1 233	1 882	1 529	1 427	1 234	1 465
Zircon concentrate f	231	187	180	228	272	282	250	319
Other mineral resources	2 074	1 167	1 693	2 004	2 253	2 428	2 515	2 638
Total mineral resources g	40 925	38 914	44 063	57 013	55 951	55 033	52 373	67 348

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.

38 Value of Australian exports of minerals, by destination ^a

	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa	57	96	112	117	113	113	119	164
Americas								
United States	993	1 016	647	661	568	641	485	742
Other	229	213	299	407	408	364	388	404
Asia								
China	240	290	525	775	575	739	1 045	1 213
Chinese Taipei	1 091	1 175	1 466	1 538	1 493	1 617	1 897	1 953
Hong Kong, China	679	758	1 037	1 191	1 200	801	844	1 021
India	75	182	353	469	569	669	816	785
Japan	7 884	9 171	9 202	9 439	9 306	9 355	9 176	9 077
Korea, Rep. of	1 519	1 897	2 063	2 545	2 952	3 306	4 708	5 241
Singapore	1 274	1 908	2 208	2 549	1 874	2 161	1 815	1 595
Other	1 147	1 378	1 639	1 941	2 128	2 438	2 627	2 610
Europe								
France	268	296	381	294	263	262	260	265
Germany	400	430	384	328	335	370	398	406
Netherlands	405	552	442	441	354	368	178	156
United Kingdom	838	825	714	783	1 243	498	791	581
Other European Union	1 612	1 799	1 872	1 748	1 584	1 802	893	908
Other Europe	723	904	423	389	334	211	479	238
Oceania								
New Zealand	276	274	349	443	489	520	700	818
Other	293	350	384	405	382	398	495	549
Other	4 626	4 700	3 875	3 529	3 677	4 205	5 615	5 415
Total	23 554	26 935	27 169	28 929	28 897	29 838	33 728	34 141
	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Africa	231	180	153	263	364	415	440	409
Americas								
United States	1 931	1 227	1 798	2 109	1 585	1 435	1 169	1 185
Other	544	582	564	676	827	880	948	1 338
Asia								
China	1 497	1 626	2 036	2 768	2 990	3 567	4 550	6 783
Chinese Taipei	2 566	2 599	2 956	4 039	3 159	2 653	2 293	3 407
Hong Kong, China	1 668	1 088	996	1 256	1 365	982	747	769
India	921	1 195	949	1 304	1 732	1 976	4 091	5 153
Japan	10 545	10 008	11 337	15 034	14 855	14 356	12 533	16 942
Korea, Rep. of	4 520	4 420	4 647	5 958	6 162	5 743	5 275	6 457
Singapore	1 918	1 693	3 259	4 060	2 802	2 790	1 540	1 629
Other	2 106	1 821	2 287	2 786	2 807	2 647	3 085	5 084
Europe								
France	294	380	309	443	521	427	348	476
Germany	478	416	383	421	381	324	297	335
Netherlands	279	347	463	795	766	644	626	910
United Kingdom	1 097	2 456	1 537	1 469	2 009	3 314	2 205	2 096
Other European Union	1 172	1 301	1 172	1 446	1 742	1 650	1 410	1 847
Other Europe	1 001	336	185	162	92	185	124	178
Oceania								
New Zealand	739	719	858	989	1 207	1 102	941	1 528
Other	511	407	550	860	525	516	369	469
Other	5 953	5 957	7 483	9 102	9 022	7 267	6 160	6 867
Total	39 970	38 757	43 919	55 939	54 911	52 872	49 152	63 864

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

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

39 Volume of Australian imports of mineral commodities

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Clays	kt	38	45	66	57	50	61	47
Diamonds a	'000 ct	2 827	2 528	2 598	2 431	3 218	2 229	2 168
Iron and steel								
Iron ore and pellets b	kt	4 429	4 460	4 658	3 880	4 667	5 417	4 648
Iron and steel	kt	1 127	1 128	896	1 354	1 306	1 583	2 116
Ferroalloys	kt	57	47	46	46	51	57	60
Limestone	kt	1 066	705	665	595	582	547	455
Magnesium	kt	6	7	6	6	6	9	7
Petroleum								
Crude oil and other								
refinery feedstock	ML	29 729	26 936	26 489	27 308	27 958	23 498	26 055
LPG	ML	496	519	633	588	299	785	540
Automotive gasoline	ML	890	1 065	1 189	1 436	1 673	3 242	3 125
Diesel fuel c	ML	1 435	1 400	1 129	1 280	1 627	3 374	3 961
Other refinery products s	ML	581	648	902	2 327	5 194	9 762	10 659
Phosphate rock	kt	884	756	823	933	711	723	797
Platinum and platinum								
group metals	kg	8 329	3 199	2 158	1 652	2 319	2 984	2 391
Potassium fertiliser	kt	357	353	346	417	433	447	497
Sulphur	kt	325	263	482	544	595	684	592

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.

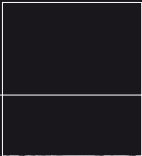
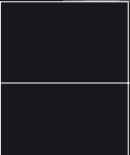
Sources: ABARE, *Australian Mineral Statistics*, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra.

40 Value of Australian imports of mineral commodities

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Clays	17	17	25	23	14	19	16
Diamonds a	162	210	249	255	302	309	347
Gold b	2 351	2 390	1 686	2 207	2 957	2 559	2 462
Iron and steel							
Iron ore and pellets c	85	107	122	104	114	140	145
Iron and steel	940	1 034	923	1 099	1 226	1 353	2 041
Ferroalloys	69	54	58	60	59	71	137
Limestone	16	11	11	10	9	9	7
Magnesium	25	21	15	14	15	21	17
Petroleum							
Crude oil and other							
refinery feedstock	3 794	6 313	8 753	7 458	8 610	6 594	9 996
LPG	64	108	160	116	76	166	143
Automotive gasoline	134	321	432	448	569	1 168	1 459
Diesel fuel d	225	377	438	414	561	1 134	1 941
Other refinery products s	312	325	463	953	1 971	3 428	4 984
Phosphate rock	64	54	62	72	50	41	49
Platinum and platinum							
group metals	148	55	30	42	64	86	59
Potassium fertiliser	86	82	91	117	108	94	106
Silver	46	29	16	32	35	70	30
Sulphur	18	21	37	30	45	59	47
Total	8 834	11 815	13 924	13 855	17 211	17 689	24 279

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.

rural commodities



41 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	599	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	904	33
1970-71	4 191	1.31	5 474	233	2 196	98
1971-72	4 492	1.29	5 782	223	3 138	135
1972-73	3 891	0.93	3 620	190	1 654	79
1973-74	3 664	1.27	4 671	347	1 739	136
1974-75	3 285	1.35	4 424	404	2 883	280
1975-76	3 868	1.44	5 575	500	3 137	306
1976-77	3 901	1.29	5 019	464	3 294	332
1977-78	4 318	0.98	4 218	347	1 928	177
1978-79	4 663	1.51	7 063	555	2 833	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	4 815	1 103
1997-98	5 388	1.88	10 102	1 601	3 400	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	5 525	1.84	10 186	1 877	7 187	1 412

^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.

42 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								
1998-99	'000 ha	638	568	163	811	975	11	3 167
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	650	760	90	1 000	1 078	11	3 589
Yield								
1998-99	t/ha	1.95	1.53	1.96	1.81	2.10	2.73	1.89
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	1.98	1.45	2.11	2.08	1.65	2.09	1.80
Production								
1998-99	kt	1 247	870	320	1 469	2 051	30	5 987
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	1 287	1 100	190	2 080	1 774	23	6 454
Oats								
Area								
1998-99	'000 ha	354	188	18	228	112	8	909
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	355	160	9	250	83	7	864
Yield								
1998-99	t/ha	1.89	2.44	0.83	2.03	1.59	1.75	1.98
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	0.85	1.38	0.44	1.67	1.28	1.29	1.22
Production								
1998-99	kt	669	458	15	463	178	14	1 798
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	300	220	4	418	106	9	1 057

Continued

42 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								
1998-99	'000 ha	216	1	367	2	0	1	587
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	205	2	450	2	0	0	659
Yield								
1998-99	t/ha	3.81	2.00	2.89	3.00	0.00	2.00	3.22
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	3.00	2.00	2.50	2.00	0.00	0.00	2.65
Production								
1998-99	kt	822	2	1 059	6	0	2	1 891
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	615	4	1 125	4	0	0	1 748
Maize								
Area								
1998-99	'000 ha	27	1	37	1	0	0	64
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	22	1	50	2	0	0	75
Yield								
1998-99	t/ha	6.89	3.00	3.92	4.00	0.00	0.00	5.28
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	7.00	7.00	2.90	3.00	0.00	0.00	4.16
Production								
1998-99	kt	186	3	145	4	0	0	338
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	154	7	145	6	0	0	312

Continued

42 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								
1998-99	'000 ha	143	111	1	29	99	2	386
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	0	29	109	2	409
2002-03	'000 ha	129	136	0	29	109	4	408
2003-04	'000 ha	135	141	3	42	122	2	445
2004-05	'000 ha	107	120	4	15	90	2	338
Yield								
1998-99	t/ha	2.27	1.62	4.00	1.48	1.48	5.00	1.83
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	2.00	1.90	1.40	1.40	1.55	3.60	1.82
Production								
1998-99	kt	324	180	4	43	147	10	707
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	214	228	6	21	140	7	615
<i>Total coarse grains</i>								
Area								
1998-99	'000 ha	1 378	869	586	1 071	1 186	22	5 113
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	722	1 404	1 368	15	5 806
2002-03	'000 ha	1 349	1 103	550	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	1 339	1 043	603	1 269	1 251	20	5 525
Yield								
1998-99	t/ha	2.36	1.74	2.63	1.85	2.00	2.55	2.10
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	2.25	2.04	2.31	3.20	2.25
2002-03	t/ha	1.03	0.77	2.21	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	1.92	1.49	2.44	1.99	1.61	1.96	1.84
Production								
1998-99	kt	3 248	1 513	1 543	1 985	2 376	56	10 721
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	2 570	1 559	1 470	2 529	2 020	39	10 186

^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.

43 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	3 589	1.80	6 454	1 162	6 500	1 274

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.

44 Summary of Australian statistics for oats

	Area '000 ha	Yield t/ha	Production		Exports	
			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	864	1.22	1 057	203	165	36

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.

45 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	659	2.65	1 748	313	513	96

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 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	75	4.16	312	80	9	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.

47 Summary of Australian statistics for triticale

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$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	338	1.82	615	120	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.

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Sorghum								
Asia								
Chinese Taipei	10	7	7	5	8	2	9	40
Japan	203	231	469	602	491	1	221	386
Papua New Guinea	24	9	0	13	38	45	21	28
United Arab Emirates	1	0	1	1	1	2	1	2
Other	13	18	63	70	48	20	37	58
Total	251	265	539	691	586	70	289	513
(value, \$m)	50	46	81	122	109	17	61	96
Oats								
Asia								
Japan	9	11	11	19	9	8	8	8
Korea, Rep. of	1	2	4	3	1	1	1	2
Philippines	5	5	5	5	5	5	6	7
Libya	3	0	0	0	3	0	0	0
Malta	0	0	1	1	0	0	0	0
Middle East								
United Arab Emirates	1	1	3	2	2	2	4	2
Other a	135	237	137	68	111	161	153	147
Total	155	257	160	97	130	177	172	165
(value, \$m)	30	38	27	22	37	66	66	36

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

49 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					
1999-00	2 596	5 032	3 325	1 854	155
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	162
2004-05	3 589	6 454	4 819	2 472	172
Oats					
1999-00	584	1 118	135	951	31
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	41
2004-05	864	1 057	139	877	41
Sorghum					
1999-00	622	2 116	665	1 448	4
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	3
2004-05	659	1 748	312	1 433	4
Maize					
1999-00	82	406	53	352	1
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	75	312	10	301	1
Triticale					
1999-00	361	764	0	744	19
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	809	17
2004-05	338	615	0	598	17
Total					
1999-00	4 244	9 435	4 179	5 349	211
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	6 610	224
2004-05	5 525	10 186	5 280	5 681	236

^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.

50 Australian feedgrains prices

	Barley a \$/t	Oats b \$/t	Sorghum c \$/t	Maize c \$/t	Feed wheat c \$/t	Triticale c \$/t
1978-79	76.66	64.73	85.86	102.60	116.61	na
1979-80	97.06	78.48	103.28	na	140.50	na
1980-81	139.41	141.44	135.33	na	151.37	na
1981-82	111.19	105.60	112.95	129.90	149.78	na
1982-83	158.14	na	na	na	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
2004						
January	182.50	136.25	197.25	247.50	206.75	188.50
February	173.75	156.25	173.75	245.00	210.00	187.50
March	173.60	163.40	182.20	235.00	215.40	190.20
April	183.75	166.25	191.50	228.75	221.25	199.50
May	195.75	177.50	201.75	235.00	231.25	211.00
June	192.20	169.00	190.00	245.00	231.00	211.60
July	180.50	155.00	180.75	237.50	211.25	191.25
August	181.50	155.00	178.25	245.00	209.00	188.75
September	177.20	145.00	174.40	247.00	200.60	186.00
October	165.50	142.50	175.25	232.50	197.75	178.75
November	156.50	151.25	181.50	222.50	188.75	188.75
December	165.00	150.00	180.00	220.00	183.00	186.67
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	208.00	215.00
August	201.40	212.00	165.20	212.00	199.20	204.20

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.

51 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	97	147	94.5
1999-00	300	876.9	876.2	231.8	49	26	105	147	89.9
2000-01	297	861.3	881.6	209.3	53	24	104	144	86.6
2001-02	301	891.8	905.5	195.6	45	22	103	146	90.1
2002-03	293	873.6	902.1	167.1	31	19	104	138	107.3
2003-04	307	913.8	945.4	135.4	29	14	103	143	115.0
2004-05	302	1 008.2	972.1	171.5	59	18	101	144	97.5

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.

52 World coarse grains production, by region and country

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Egypt	6.9	6.5	6.6	6.6	7.1	7.1	6.8	6.8
Nigeria	16.8	18.2	18.6	17.9	18.8	19.1	20.3	22.3
South Africa	8.3	8.4	11.9	8.4	10.5	10.1	10.4	12.5
Americas								
Argentina	24.7	17.8	21.7	19.6	18.7	19.4	18.6	23.9
Brazil	31.3	33.5	33.0	43.1	36.8	47.1	44.9	37.8
Canada	25.1	26.6	26.8	24.0	22.6	19.9	26.3	26.4
Mexico	23.5	24.7	26.2	24.4	27.2	26.5	30.1	29.6
United States	260.4	271.5	263.0	273.1	261.7	243.7	275.1	319.5
Asia								
China	114.7	143.5	137.2	114.0	122.2	130.7	124.6	138.3
India	31.0	31.7	30.5	31.6	34.7	25.7	37.8	32.0
Thailand	3.9	4.5	4.1	4.8	4.6	4.4	4.2	4.2
Turkey	10.0	10.5	9.2	10.2	9.5	10.0	10.3	11.0
Europe								
European Union a	109.0	105.1	133.5	132.7	140.1	138.7	123.0	150.6
Denmark	4.7	4.3	4.3	5.1	4.9	4.8	4.4	4.2
France	29.4	27.8	27.4	28.0	28.7	30.1	24.2	30.3
Germany	25.9	24.4	24.9	23.7	27.1	22.7	20.1	25.3
Italy	11.4	11.0	11.7	12.1	12.0	12.4	9.8	12.6
Spain	13.9	16.2	11.0	14.8	11.5	13.4	13.6	16.1
Sweden	4.0	3.8	3.6	3.7	3.3	3.5	3.3	3.2
United Kingdom	8.5	7.3	7.4	7.3	7.5	7.0	7.3	6.6
Former Yugoslavia	6.5	5.7	6.6	3.3	5.8	6.0	4.1	6.9
Hungary	8.9	8.1	8.8	6.3	9.8	7.8	5.9	10.7
Poland	17.2	17.7	16.8	13.9	17.8	17.5	15.4	19.7
Romania	15.0	9.6	11.9	5.8	8.5	8.4	8.0	13.8
Russian Federation	41.6	19.0	21.8	28.2	35.2	33.4	30.5	29.6
Ukraine	15.5	10.3	10.6	13.0	17.0	17.1	15.6	23.0
Oceania								
Australia	10.1	10.7	9.4	10.9	13.0	6.9	15.6	10.2
Other	100.9	107.1	68.7	69.5	70.1	74.2	86.3	79.4
Total b	881.2	890.5	876.9	861.3	891.8	873.6	913.8	1 008.2

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*.

53 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	605.3	135.7	60.8	25.7	890.5
1999-00	606.8	127.5	59.4	24.1	876.9
2000-01	589.5	132.9	53.8	26.0	861.3
2001-02	599.1	141.5	58.3	27.0	891.8
2002-03	601.7	133.9	52.7	25.7	873.6
2003-04	623.3	142.6	59.0	26.6	913.8
2004-05	708.9	153.0	58.1	25.7	1 008.2

a Includes rye, millet and mixed grain.

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

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	1.3	1.9	1.8	1.9	2.0	1.7	1.9	2.0
Egypt	3.3	3.7	4.6	5.3	5.0	4.9	3.8	5.3
Americas								
Brazil	1.8	1.3	2.0	0.7	0.6	1.1	0.5	1.0
Colombia	2.1	1.7	2.1	2.0	2.1	2.4	2.2	2.4
Mexico	8.0	9.1	10.0	11.2	9.0	8.8	8.9	9.2
Asia								
China	1.6	2.6	2.3	2.4	2.0	1.8	1.5	2.1
Chinese Taipei	4.8	4.8	5.2	5.2	4.9	4.8	5.1	4.7
Japan	21.0	20.9	20.4	20.2	19.9	20.3	20.0	19.6
Korea, Rep. of	7.6	7.8	9.3	8.9	8.8	8.9	9.0	8.7
Malaysia	2.2	2.4	2.3	2.6	2.4	2.4	2.4	2.4
Europe								
European Union a	2.3	3.1	4.8	5.4	5.9	6.4	8.0	3.1
Russian Federation	0.3	1.2	2.2	0.8	0.7	0.4	1.0	0.8
Middle East								
Iran	1.6	1.6	2.0	2.2	1.9	2.2	2.0	3.4
Saudi Arabia	5.3	7.1	6.3	6.9	7.1	8.5	8.4	6.7
Turkey	0.8	1.0	1.5	0.7	1.3	1.5	1.3	0.3
Total b	85.5	93.7	101.4	103.6	101.4	102.6	100.7	98.6
Exports								
Africa								
South Africa	1.3	0.6	1.5	1.3	1.1	1.1	0.8	2.3
Asia								
China	6.2	3.4	10.0	7.3	8.6	15.3	7.7	7.3
Americas								
Argentina	13.7	8.6	12.9	10.3	11.4	11.9	11.3	14.6
Brazil	0.0	0.0	0.2	6.3	2.1	4.7	4.8	0.6
Canada	3.7	3.3	3.6	3.7	2.5	1.7	3.6	2.8
United States	45.3	56.0	56.3	56.6	55.1	45.7	53.8	51.4
Europe								
European Union a	4.0	9.2	15.2	10.7	8.0	8.6	4.4	4.1
Oceania								
Australia	3.8	5.5	4.2	5.2	5.9	2.8	7.8	5.3
Total b	85.8	96.7	104.8	104.4	102.7	104.3	103.1	100.8

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.

55 Volume of world corn trade, by region and country ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canada	1.5	0.9	1.0	2.7	4.0	3.9	2.0	2.4
China	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.1
Chinese Taipei	4.5	4.6	5.0	4.9	4.7	4.7	5.0	4.5
Colombia	1.8	1.6	2.0	1.9	1.9	2.1	2.0	2.1
European Union ^b	2.1	2.7	3.0	3.8	3.8	4.3	5.8	2.5
Indonesia	0.5	0.5	1.2	1.3	1.1	1.6	1.4	0.4
Japan	16.4	16.3	16.1	16.3	16.4	16.9	16.8	16.5
Korea, Rep. of	7.5	7.5	8.7	8.7	8.6	8.8	8.8	8.5
Malaysia	2.2	2.4	2.3	2.6	2.4	2.4	2.4	2.4
Mexico	4.4	5.6	4.9	5.9	4.1	5.3	5.7	6.0
Saudi Arabia	1.2	1.3	1.5	1.4	1.3	1.4	1.6	1.2
Total ^c	63.2	66.5	71.7	75.6	74.3	76.7	76.5	74.5
Exports								
Argentina	12.2	7.9	11.9	9.7	10.9	11.2	10.4	14.2
Brazil	0.0	0.0	0.2	6.3	2.1	4.6	4.4	0.6
China	6.2	3.3	9.9	7.3	8.6	15.2	7.6	7.3
South Africa	1.2	0.5	1.4	1.3	1.1	1.1	0.7	2.3
United States	38.2	50.4	49.2	49.3	48.4	40.3	48.8	44.5
Other	4.2	2.9	4.2	3.4	5.3	5.7	5.3	7.9
Total	63.3	66.9	76.9	77.2	76.3	78.2	77.3	76.8

^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.

56 Volume of world barley trade, by region and country

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
China	1.2	2.0	2.2	2.3	1.9	1.8	1.5	2.0
European Union ^a	0.0	0.1	1.1	1.1	1.6	1.5	0.6	0.4
Japan	1.4	1.7	1.6	1.5	1.4	1.4	1.4	1.4
Russian Federation	0.2	0.3	0.8	0.4	0.2	0.3	0.4	0.4
Saudi Arabia	4.0	5.9	4.8	5.5	5.8	7.1	6.8	5.5
Total ^b	12.7	16.9	17.2	17.0	16.9	17.1	14.9	15.8
Exports								
Australia	3.5	4.8	3.3	4.6	5.3	2.6	7.0	4.9
Canada	2.2	1.1	1.7	2.0	1.1	0.4	1.8	1.2
European Union ^a	2.5	7.4	10.4	7.7	3.8	5.0	1.0	3.3
United States	1.6	0.6	0.6	1.3	0.6	0.7	0.4	0.5
Total ^b	13.2	16.8	17.3	17.5	17.6	16.7	16.9	16.0

^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.

57 Volume of world sorghum trade, by country

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Chinese Taipei	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
European Union a	0.2	0.3	0.3	0.0	0.0	0.0	1.6	0.2
Israel	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1
Japan	2.8	2.5	2.2	2.0	1.8	1.6	1.4	1.4
Mexico	3.4	3.3	4.9	5.0	4.8	3.4	3.0	3.1
Total b	6.9	6.7	8.2	7.6	7.0	5.5	6.5	5.4
Exports								
Argentina	1.3	0.6	0.9	0.4	0.4	0.6	0.2	0.3
Australia	0.2	0.5	0.9	0.6	0.4	0.1	0.6	0.3
United States	5.4	5.0	6.5	6.0	6.1	4.7	5.0	4.7
Total b	7.0	6.3	8.5	7.3	7.1	5.7	6.5	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.

58 US coarse grains supply and disposal

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Area	million ha	36.9	36.2	35.0	35.6	33.9	33.5	34.8	34.9
Yield	t/ha	7.1	7.5	7.5	7.7	7.7	7.3	7.9	9.2
Production	Mt	260.4	271.5	263.0	273.1	261.7	243.7	275.1	319.5
Opening stocks	Mt	27.0	38.2	51.4	48.9	52.7	45.0	30.9	28.8
Imports	Mt	2.9	3.1	2.8	2.7	2.6	2.6	2.4	2.2
Availability	Mt	290.4	312.7	317.1	324.7	317.0	291.3	308.5	350.4
Domestic use	Mt	207.1	205.3	211.9	215.4	216.8	214.7	226.0	240.3
– feed	Mt	154.8	152.4	157.2	160.1	159.6	150.0	155.8	166.1
– food, seed	Mt	52.2	52.9	54.7	55.3	57.2	64.7	70.2	74.2
Exports	Mt	45.3	56.0	56.3	56.6	55.1	45.7	53.8	51.4
Closing stocks	Mt	38.1	51.3	48.9	52.6	45.1	30.9	28.8	58.8
– CCC a	Mt	0.1	0.3	0.4	0.2	0.2	0.1	0.0	0.0
– free	Mt	38.0	51.0	48.5	52.4	44.9	30.8	28.8	58.8

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.

59 US corn supply and disposal ^a

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Area									
– planted	million ha	32.2	32.5	31.3	32.2	30.7	31.9	31.8	32.7
– harvested	million ha	29.4	29.4	28.5	29.3	27.8	28.1	28.7	29.8
Yield	t/ha	7.95	8.44	8.40	8.60	8.68	8.11	8.93	10.06
Production	Mt	233.9	247.9	239.5	251.9	241.4	227.8	256.3	299.9
Opening stocks	Mt	22.4	33.2	45.4	43.6	48.2	40.6	27.6	24.3
Imports	Mt	0.2	0.5	0.4	0.2	0.3	0.4	0.4	0.3
Availability	Mt	256.5	281.6	285.3	295.7	289.9	268.7	284.2	324.5
Domestic use	Mt	185.1	185.8	192.5	198.1	200.9	200.7	211.6	224.8
– feed	Mt	139.2	138.9	143.9	148.4	149.0	141.3	147.2	156.5
– food, seed	Mt	45.8	46.9	48.6	49.7	51.9	59.4	64.4	68.3
Exports	Mt	38.2	50.4	49.2	49.3	48.4	40.3	48.8	44.5
Closing stocks	Mt	33.2	45.4	43.6	48.2	40.6	27.6	24.3	53.7
– CCC ^b	Mt	0.1	0.3	0.3	0.2	0.2	0.1	0.0	0.0
– free	Mt	33.1	45.1	43.3	48.0	40.4	27.5	24.3	53.7
Farm price	US\$/bus	2.43	1.94	1.82	1.85	1.97	2.32	2.42	2.06
Loan rate	US\$/bus	1.89	1.89	1.89	1.89	1.89	1.98	1.98	1.95
Export price ^c	US\$/t	112.4	94.5	89.9	86.6	90.1	107.3	115.0	97.5

^a September–August crop years. ^b Commodity Credit Corporation. ^c US no. 2 yellow corn fob Gulf.

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

60 US sorghum and barley supply and disposal

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Sorghum a									
Area harvested	million ha	3.7	3.1	3.5	3.1	3.5	2.9	3.2	2.6
Yield	t/ha	4.3	4.2	4.4	3.8	3.8	3.2	3.3	4.4
Production	Mt	16.1	13.2	15.1	12.0	13.1	9.2	10.4	11.6
Opening stocks	Mt	1.2	1.2	1.7	1.7	1.1	1.5	1.1	0.9
Availability	Mt	17.3	14.4	16.8	13.6	14.1	10.7	11.5	12.4
Domestic use	Mt	10.7	7.8	8.6	6.5	6.4	4.9	5.6	6.3
Exports	Mt	5.4	5.0	6.5	6.0	6.1	4.7	5.0	4.7
Closing stocks	Mt	1.2	1.7	1.7	1.1	1.5	1.1	0.9	1.4
Farm price	US\$/bus	2.2	1.7	1.6	1.9	1.9	2.3	2.4	1.8
Loan rate	US\$/bus	1.8	1.7	1.7	1.7	1.7	2.0	2.0	2.0
Export price b	US\$/t	113.3	94.5	88.6	95.6	99.9	120.7	127.9	108.8
Barley c									
Area harvested	million ha	2.5	2.4	1.9	2.1	1.7	1.7	1.9	1.6
Yield	t/ha	3.1	3.2	3.1	3.3	3.1	3.0	3.2	3.7
Production	Mt	7.8	7.7	5.9	6.9	5.4	4.9	6.1	6.1
Opening stocks	Mt	2.4	2.6	3.1	2.4	2.3	2.0	1.5	2.6
Imports	Mt	0.9	0.6	0.6	0.6	0.5	0.4	0.4	0.3
Availability	Mt	11.1	10.9	9.6	10.0	8.2	7.3	8.0	9.0
Domestic use	Mt	6.9	7.2	6.6	6.4	5.7	5.2	5.0	5.7
Exports	Mt	1.6	0.6	0.6	1.3	0.6	0.7	0.4	0.5
Closing stocks	Mt	2.6	3.1	2.4	2.3	2.0	1.5	2.6	2.8
Farm price	US\$/bus	2.4	2.0	2.1	2.1	2.2	2.7	2.8	2.5
Loan rate	US\$/bus	1.6	1.6	1.6	1.6	1.7	1.9	1.9	1.9
Export price d	US\$/t	118.2	95.9	105.3	110.6	111.6	128.5	132.3	114.8

a September–August crop years. b US no. 2 sorghum fob Gulf. c June–May crop years. d No. 2 barley fob Portland (July–June average).
Sources: US Department of Agriculture, *Agricultural Outlook*, Washington DC; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *World Agricultural Supply and Demand Estimates*, Washington DC.

61 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
1979-80	175.0	115.0	116.0	135.0
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
2004				
January	170.1	116.1	135.6	131.0
February	164.1	123.2	138.7	132.0
March	169.0	128.9	140.5	131.0
April	171.9	133.5	141.7	128.9
May	164.3	129.6	133.1	132.0
June	157.5	122.2	120.0	132.5
July	152.4	104.0	107.5	123.9
August	145.0	104.1	116.3	112.7
September	156.0	97.9	112.6	104.8
October	155.0	93.5	107.3	101.8
November	162.0	93.9	107.6	110.6
December	160.0	95.8	105.2	116.2
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

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.

62 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)						
1998-99	36.2	7.50	271.5	205.3	56.0	51.3
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	7.90	275.1	226.0	53.8	28.8
2004-05	34.9	9.15	319.5	240.3	51.4	58.8
Canada (August–July) a						
1998-99	7.4	3.60	26.6	23.6	3.3	4.9
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	24.4	2.8	5.8
Argentina (March–February)						
1998-99	3.9	4.57	17.8	10.0	8.6	1.6
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	3.9	6.14	23.9	9.1	14.6	1.2
Australia (November–October)						
1998-99	5.1	2.10	10.7	6.1	5.5	0.8
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	6.8	7.8	2.1
2004-05	5.5	1.84	10.2	5.9	5.3	1.5
European Union (July–June) b						
1998-99	20.0	5.25	105.1	97.4	9.2	22.2
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	4.75	140.1	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	150.6	139.6	4.1	22.6
World						
1998-99	308.5	2.88	890.5	869.0	96.7	237.2
1999-00	300.0	2.92	876.9	876.2	104.8	231.8
2000-01	296.9	2.97	861.3	881.6	104.4	209.3
2001-02	301.2	2.96	891.8	902.7	102.7	195.6
2002-03	293.0	2.98	873.6	900.6	104.3	167.1
2003-04	306.8	2.98	913.8	942.2	103.1	135.4
2004-05	302.2	3.34	1 008.2	969.5	100.8	171.5

a Canada also imports about 0.5 million tonnes of grain from the United States each year. **b** Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00.

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

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

63 Australian cotton area harvested and lint yield ^a

	Area harvested			Lint yield		
	New South Wales '000 ha	Queensland '000 ha	Australia ^b '000 ha	New South Wales t/ha	Queensland t/ha	Australia ^b t/ha
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

^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.

64 Australian cottonseed and lint production ^a

	Cottonseed production			Lint production		
	New South Wales kt	Queensland kt	Australia ^b kt	New South Wales kt	Queensland kt	Australia ^b 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

^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.

65 Australian production, trade and use of raw cotton

	Domestic lint production a kt	Gross value of production b \$m	Imports		Exports		Use kt
			Volume kt	Value \$m	Volume kt	Value \$m	
1960-61	2.6	na	na	na	na	na	na
1961-62	2.2	1.3	na	na	na	na	na
1962-63	1.8	1.9	19.3	na	na	na	21.3
1963-64	2.5	2.2	25.7	na	na	na	25.5
1964-65	8.5	7.7	25.2	na	na	na	25.6
1965-66	17.5	14.3	14.6	8.2	na	na	28.3
1966-67	14.4	13.6	9.1	4.7	na	na	28.8
1967-68	29.0	19.7	12.3	6.9	na	na	28.1
1968-69	30.4	20.7	5.7	3.8	3.7	1.9	28.9
1969-70	24.7	18.6	4.7	3.0	11.5	5.1	30.1
1970-71	15.9	14.0	7.0	4.3	7.4	3.4	30.3
1971-72	39.8	29.8	8.9	5.8	2.4	1.6	27.4
1972-73	28.4	32.6	3.8	2.7	22.3	11.3	28.7
1973-74	28.4	32.6	8.4	9.3	3.2	1.8	31.6
1974-75	32.9	26.6	4.0	4.8	7.7	5.4	23.3
1975-76	24.9	29.3	4.1	4.4	16.0	11.5	26.9
1976-77	28.0	37.5	5.0	7.4	5.5	7.1	22.2
1977-78	44.2	52.2	4.0	5.6	9.8	10.9	21.4
1978-79	53.1	76.0	1.7	3.1	23.6	28.5	20.6
1979-80	83.2	135.3	2.0	4.0	48.5	66.9	21.2
1980-81	98.9	147.0	2.2	4.3	59.0	92.0	21.7
1981-82	134.6	182.0	1.0	1.9	79.0	117.0	20.4
1982-83	100.8	168.0	0.7	1.3	129.0	198.0	17.5
1983-84	141.3	269.0	1.1	2.4	82.0	148.0	20.5
1984-85	248.7	330.0	2.7	6.0	140.0	262.0	20.3
1985-86	267.3	295.0	0.5	1.4	241.0	380.0	21.0
1986-87	221.6	372.5	0.3	0.6	251.0	345.0	22.3
1987-88	269.0	421.6	0.3	0.7	176.0	353.0	22.2
1988-89	293.0	536.9	1.1	2.9	287.3	462.8	21.8
1989-90	305.3	658.0	0.1	0.3	306.0	579.8	24.3
1990-91	447.0	981.0	0.7	2.2	339.7	737.7	23.0
1991-92	554.5	972.0	0.7	1.8	458.1	945.0	27.7
1992-93	409.3	770.0	0.3	1.3	396.0	755.5	28.3
1993-94	367.5	739.0	0.3	1.4	360.5	732.0	31.7
1994-95	375.0	910.0	0.2	1.2	296.4	678.0	33.4
1995-96	421.2	1 001.0	0.7	2.0	311.4	762.3	42.0
1996-97	610.1	1 342.0	0.2	0.6	505.0	1 076.9	42.4
1997-98	665.7	1 449.2	0.2	1.0	593.4	1 385.6	40.4
1998-99	715.6	1 394.7	0.2	1.0	646.7	1 559.0	37.7
1999-00	740.5	1 617.0	0.4	1.4	703.0	1 406.6	40.6
2000-01	819.0	1 882.0	0.4	1.6	833.8	1 957.1	36.1
2001-02	703.3	1 499.0	0.4	1.0	718.4	1 547.2	32.0
2002-03	387.1	844.0	0.3	1.0	595.7	1 152.3	25.6
2003-04	349.1	671.0	0.1	0.5	458.8	981.7	18.1
2004-05	645.1	1 222.0	0.3	0.7	409.6	770.0	18.1

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.

66 Volume of Australian exports of raw cotton, by destination

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	537.5	594.1	657.7	778.6	674.8	559.9	444.6	395.8
China	74.7	18.2	5.4	11.4	13.1	29.6	79.9	61.8
Chinese Taipei	28.1	30.0	26.7	31.6	21.5	13.6	2.7	3.9
India	18.3	14.3	41.8	66.1	55.0	6.8	2.2	3.5
Indonesia	161.5	209.3	182.9	220.3	193.9	184.2	147.0	130.0
Japan	101.3	135.4	138.9	139.6	120.9	94.0	52.2	45.2
Korea, Rep. of	35.7	50.1	53.0	75.3	94.0	96.3	56.4	63.6
Pakistan	3.7	18.6	48.8	39.6	29.1	14.9	33.2	13.3
Philippines	8.1	7.2	12.2	11.6	5.1	3.3	0.7	0.2
Thailand	55.4	79.4	95.0	114.5	90.1	86.9	58.6	64.8
Other	50.9	31.6	53.0	68.8	52.1	30.2	11.7	9.7
Europe	49.2	45.0	41.1	49.3	41.3	31.5	11.9	10.2
Germany	3.2	0.6	0.8	0.0	0.0	0.2	0.2	0.1
Italy	30.4	27.4	22.4	29.2	24.3	17.3	6.6	8.1
Spain	11.5	9.0	3.0	2.6	2.9	2.9	2.9	2.0
Other	4.1	7.9	14.9	17.5	14.1	11.0	2.2	0.1
United States	0.3	0.2	0.1	0.4	0.0	1.2	0.5	0.3
Other countries	6.7	7.6	4.2	5.9	2.3	4.3	2.3	3.6
Total	593.4	646.7	703.0	833.8	718.4	595.7	458.8	409.6

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

67 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	228.8
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	52.2	167.3	188.0

^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.

68 Summary of world statistics for raw cotton ^a

	Opening stocks kt	Production kt	Total supply kt	Consumption kt	Imports ^b kt	Price ^c US\$/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	33 039	18 843	6 315	63.1
1992-93	8 045	17 920	31 849	18 804	5 884	57.7
1993-94	7 499	16 906	30 480	18 648	6 075	70.6
1994-95	6 027	18 777	31 390	18 317	6 586	91.1
1995-96	6 942	20 402	33 213	18 579	5 869	85.5
1996-97	8 678	19 601	34 493	19 011	6 214	78.6
1997-98	9 639	20 082	35 359	18 923	5 638	72.2
1998-99	10 618	18 616	34 577	18 281	5 344	60.2
1999-00	11 175	19 099	36 383	19 759	6 109	52.5
2000-01	10 703	19 345	35 773	19 840	5 725	57.2
2001-02	10 186	21 501	38 121	20 456	6 434	41.8
2002-03	11 350	19 215	37 140	21 319	6 576	55.4
2003-04	9 220	20 698	37 323	21 262	7 406	68.3
2004-05	8 843	26 221	42 252	23 541	7 189	52.2

^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.

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

	Area harvested '000 ha	Lint yield kg/ha	Production					World kt
			Brazil kt	India kt	Pakistan kt	United States kt	China kt	
1960-61	32 120	305	425	na	na	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	551	483	2 134	1 368	3 513	3 745	16 906
1994-95	32 214	583	537	2 427	1 361	4 281	4 333	18 777
1995-96	35 967	567	410	2 885	1 785	3 897	4 768	20 402
1996-97	33 719	581	306	3 030	1 594	4 124	4 202	19 601
1997-98	33 778	595	412	2 686	1 562	4 092	4 594	20 082
1998-99	32 893	566	521	2 805	1 372	3 030	4 507	18 616
1999-00	32 242	592	700	2 652	1 872	3 694	3 832	19 099
2000-01	32 021	604	939	2 380	1 785	3 742	4 420	19 345
2001-02	33 730	637	766	2 678	1 807	4 421	5 313	21 501
2002-03	30 449	631	847	2 308	1 698	3 747	4 921	19 215
2003-04	32 369	639	1 310	3 005	1 687	3 975	4 855	20 698
2004-05	35 876	731	1 285	4 137	2 460	5 062	6 314	26 221

^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.

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	1 145	1 130	1 148	1 056	1 097	1 265	1 387	1 381
Sub-saharan Africa	1 075	1 302	1 056	975	1 008	1 113	1 300	1 250
Burkina	120	114	113	113	142	158	207	212
America	1 976	1 273	1 649	1 745	2 659	2 772	3 344	3 586
United States	1 633	936	1 470	1 467	2 395	2 591	2 996	3 113
South America	297	313	148	258	243	164	319	431
Brazil	0	5	3	69	147	106	210	339
Australia	590	662	699	834	718	596	459	410
Greece	218	210	235	310	218	250	267	250
Mali	180	207	196	125	201	185	256	207
Uzbekistan	995	830	914	751	762	740	675	860
Other	714	810	1 080	934	654	790	845	918
Total	5 818	5 122	5 921	5 755	6 309	6 598	7 233	7 612

^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.

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Asia	2 727	2 790	3 275	3 137	3 906	3 993	5 130	5 089
Bangladesh	130	142	169	218	261	348	335	370
China	376	72	25	50	98	681	1 923	1 390
Chinese Taipei	263	299	313	226	333	265	220	291
Indonesia	416	506	452	577	513	485	468	523
Korea	288	320	332	309	352	325	277	293
Pakistan	26	201	103	98	218	185	403	305
Thailand	269	263	369	342	410	423	365	497
Turkey	316	248	525	383	648	493	516	742
Other Asia	644	739	986	933	1 073	786	622	679
European Union ^b	1 251	1 050	1 064	1 038	963	840	687	618
Mexico	299	310	395	406	450	507	405	394
Middle East	328	265	555	409	681	540	550	786
Russian Federation	267	185	348	359	392	359	321	316
Other	774	730	454	358	22	317	290	0
Total	5 645	5 330	6 091	5 707	6 414	6 556	7 383	7 159

^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.

72 Summary of Australian statistics for dairy products

	Dairy cow numbers ^a '000	Milk yield per cow L	Production			Export price ^c	
			Milk ^b ML	Butter kt	Cheese kt	Butter \$/t	Cheese \$/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	241	2 076	3 449
1995-96	1 884	4 626	8 716	153	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	164	310	2 264	3 955
1998-99	2 155	4 723	10 178	187	327	2 510	3 967
1999-00	2 171	4 996	10 847	183	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	431	2 417	4 738
2002-03	2 050	5 037	10 326	149	368	2 014	3 844
2003-04	2 038	4 948	10 075	132	381	2 187	3 483
2004-05	2 005	4 961	10 125	131	373	2 713	3 850

^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.

73 Value of Australian exports of dairy products, by destination

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Cheese								
Japan	\$m	276.0	306.6	338.8	429.2	272.0	299.6	378.9
Philippines	\$m	21.6	16.4	18.6	20.0	15.7	11.1	18.2
Saudi Arabia	\$m	81.6	94.1	123.6	148.2	98.9	69.0	81.5
United Kingdom	\$m	29.5	23.9	38.7	21.5	15.2	18.3	20.5
United States	\$m	30.2	28.8	39.1	48.3	36.1	33.9	45.4
Other	\$m	256.1	336.8	391.0	366.3	361.9	306.6	330.9
Total	\$m	695.0	806.6	949.9	1 033.4	799.8	738.4	875.4
Butter and butterfat ^a								
Egypt	\$m	33.0	33.7	34.6	23.5	18.9	6.4	10.5
Malaysia	\$m	11.7	15.8	14.7	14.4	12.7	13.5	11.6
Philippines	\$m	11.4	11.9	8.6	5.1	3.7	1.9	2.8
Singapore	\$m	20.7	19.4	16.7	20.4	15.5	18.2	16.8
Thailand	\$m	22.9	27.3	19.8	23.0	13.2	12.7	13.5
Other	\$m	194.6	182.6	196.6	211.0	160.0	129.4	133.0
Total	\$m	294.3	290.5	291.0	297.4	224.0	182.1	188.3
Skim milk powder								
Japan	\$m	25.6	56.2	48.9	53.7	29.6	13.3	10.6
Malaysia	\$m	73.7	78.3	87.4	88.4	51.4	52.7	64.2
Philippines	\$m	128.5	102.0	181.4	143.5	69.0	59.8	49.4
Singapore	\$m	32.3	26.7	51.8	52.8	38.4	41.3	57.7
Thailand	\$m	61.9	55.1	67.2	69.1	33.2	20.0	21.7
Other	\$m	174.0	159.8	257.5	290.5	184.1	198.8	216.3
Total	\$m	496.0	478.1	694.2	697.9	405.6	386.0	419.9
Casein								
Japan	\$m	5.3	9.2	12.8	14.4	6.4	7.1	7.4
United States	\$m	47.4	57.7	55.4	56.0	27.0	24.0	28.0
Other	\$m	13.8	13.8	21.3	6.5	9.4	17.3	20.3
Total	\$m	66.6	80.7	89.5	76.8	42.8	48.4	55.7
Wholemilk powder								
Malaysia	\$m	34.7	27.0	26.9	39.2	22.3	28.9	33.1
Singapore	\$m	15.2	15.7	31.7	29.7	25.2	21.4	30.9
Taiwan	\$m	42.1	49.2	54.9	54.1	44.9	40.0	31.5
Thailand	\$m	29.4	28.8	24.9	22.6	14.0	12.0	8.6
Other	\$m	242.7	282.8	441.8	425.5	273.4	218.9	220.3
Total	\$m	364.0	403.4	580.2	571.1	379.8	321.1	324.4
Other products								
Fresh milk	\$m	76.0	81.4	82.0	98.1	98.1	104.0	108.7
Other fresh products	\$m	18.2	20.2	12.7	7.9	5.5	9.6	9.1
Condensed milk	\$m	81.6	87.6	111.5	123.7	133.3	121.0	139.8
Other powders	\$m	117.4	158.7	192.6	275.1	274.9	250.0	242.6
Total	\$m	293.1	348.0	398.8	504.8	511.9	484.7	500.3

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

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

74 Volume of Australian exports of dairy products, by destination

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Cheese								
Japan	kt	73.6	84.9	84.6	103.2	73.2	92.4	106.5
Philippines	kt	6.6	5.4	5.5	5.2	4.9	3.7	5.0
Saudi Arabia	kt	12.6	14.6	16.3	17.4	14.8	14.9	17.0
United Kingdom	kt	5.7	6.8	9.8	4.3	4.3	5.0	5.1
United States	kt	8.0	8.3	9.4	10.8	9.0	10.3	11.9
Other	kt	68.7	99.7	93.2	77.1	101.9	85.7	81.9
Total	kt	175.2	219.8	218.8	218.1	208.1	212.0	227.4
Butter and butterfat ^a								
Egypt	kt	12.3	17.3	15.5	12.1	10.5	3.6	4.4
Malaysia	kt	4.2	6.8	6.0	5.2	4.7	4.7	3.4
Philippines	kt	4.8	5.8	4.0	2.4	2.1	1.0	1.1
Singapore	kt	9.3	9.0	6.3	8.0	6.5	7.0	7.1
Thailand	kt	9.4	12.4	8.9	9.8	7.7	6.5	5.5
Other	kt	74.4	80.9	75.8	81.8	74.4	58.7	46.6
Total	kt	117.2	136.8	120.3	123.1	111.2	83.3	69.4
Skim milk powder								
Japan	kt	11.5	27.2	20.2	18.3	16.4	7.6	3.9
Malaysia	kt	32.8	36.1	25.9	25.3	22.9	22.1	22.0
Philippines	kt	57.4	47.0	51.1	41.4	29.8	24.2	17.7
Singapore	kt	15.4	12.4	15.1	16.4	17.8	17.0	20.7
Thailand	kt	27.0	24.4	18.2	21.8	14.9	7.9	8.3
Other	kt	76.0	71.1	72.1	87.0	79.2	76.3	68.1
Total	kt	220.1	218.2	202.6	210.2	180.9	155.0	140.7
Casein								
Japan	kt	1.0	1.2	1.2	1.2	0.9	1.1	0.9
United States	kt	9.1	9.6	5.8	6.5	4.8	3.9	3.5
Other	kt	2.8	2.8	3.0	0.8	1.8	2.9	2.5
Total	kt	12.9	13.6	10.0	8.5	7.6	7.8	6.9
Wholemilk powder								
Chinese Taipei	kt	14.8	17.8	14.4	13.2	13.3	11.5	9.2
Malaysia	kt	11.6	10.0	7.9	10.3	6.8	11.1	11.0
Singapore	kt	5.9	6.4	9.6	9.8	12.3	8.8	10.6
Thailand	kt	10.7	11.5	7.8	6.4	5.8	4.8	2.9
Other	kt	83.3	107.7	127.8	125.6	103.5	80.6	71.0
Total	kt	126.3	153.4	167.5	165.3	141.7	116.8	104.8
Other products								
Fresh milk	ML	81.7	86.1	83.1	86.9	88.3	85.7	86.7
Other fresh products	ML	6.1	5.2	3.1	1.4	1.5	2.5	2.5
Condensed milk	kt	62.4	68.9	62.6	71.5	102.3	100.2	102.6
Other powders	kt	38.2	53.6	48.6	67.3	75.2	69.4	68.3

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

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

75 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	250	1 319	145	95	67	130	2 005

^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.

76 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

^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.

77 Australian manufacture of dairy products

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Butter a	163.8	186.7	183.2	172.3	178.4	148.6	132.0	131.0
Cheese	310.4	327.2	373.4	375.5	430.5	368.0	381.0	373.0
Non-cheddar	121.5	140.6	157.1	163.0	192.1	173.3	179.0	159.4
Cheddar	188.9	186.6	216.3	212.5	238.4	194.7	202.0	213.6
Wholemilk powder	128.5	144.8	186.7	205.4	238.7	169.6	187.0	189.0
Skim milk powder b	215.1	255.2	264.0	265.0	261.0	215.4	182.0	189.0
Casein	8.8	13.5	15.0	13.0	13.9	13.1	10.0	10.0
Buttermilk powder	15.0	17.0	17.8	15.7	16.8	16.3	16.3	18.8

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.

78 Australian consumption of dairy products

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Total consumption								
Butter	kt	54.7	58.3	56.9	62.8	67.0	66.9	70.1
Margarine (table)	kt	82.0	82.0	83.0 ^s	83.0	na	na	na
Cheese a	kt	197.2	204.1	219.0	219.0	246.0	281.0	231.0
Australian	kt	166.0	167.0	181.8	181.8	208.0	238.0	189.0
Wholemilk powder	kt	15.5	18.2	15.0	14.0	22.5	23.0	24.0
Skim milk powder b	kt	33.9	35.0	37.0	37.0	43.1	44.2	45.3
Casein	kt	0.3	0.4	0.5	0.5	0.7	0.8	0.8
Market milk	ML	1 918	1 931	1 934	1 934	1 924	1 941	1 992
Consumption per person								
Butter	kg	2.9	2.9	3.1	2.9	2.9	3.4	3.5
Margarine (table)	kg	4.4	4.4	4.3	4.3	4.3	4.2	4.2
Cheese a	kg	10.9	10.7	11.4	11.9	12.1	12.3	12.4
Australian	kg	9.0	8.9	9.5	9.4	9.4	9.5	9.5
Wholemilk powder	kg	0.8	0.9	0.8	0.7	1.1	0.5	1.1
Skim milk powder b	kg	1.8	1.8	1.9	1.9	1.1	1.3	1.5
Market milk	L	103.0	102.4	101.2	100.3	98.5	98.3	99.6

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

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.

79 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	31.0	2 512	627	3 139

^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.

80 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
1997						
March	115	130	792	718	364	408
June	115	130	772	714	376	398
September	116	130	756	720	370	412
December	116	133	722	710	348	412
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	256	268	850	788	532	528
December	273	298	822	810	536	548
2005						
March	282	303	816	820	568	604
June	286	310	806	856	588	624

^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.

81 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	6 277.43
1989-90	2 420.90	3 460.80	2 340.85	2 852.70	5 648.35
1990-91	1 967.87	3 203.04	1 783.98	2 193.05	3 889.50
1991-92	2 177.05	3 316.42	1 953.08	2 431.63	4 663.18
1992-93	2 240.51	3 693.29	2 553.84	2 918.19	6 670.29
1993-94	2 196.56	3 750.07	2 232.74	2 603.09	16 322.78
1994-95	2 076.10	3 448.84	2 292.65	2 471.42	7 045.15
1995-96	2 992.85	3 880.56	2 845.11	3 141.29	8 956.43
1996-97	2 000.87	3 702.17	2 462.28	2 778.68	5 801.21
1997-98	2 263.69	3 954.53	2 495.26	2 882.43	4 828.54
1998-99	2 510.24	3 967.28	2 253.39	2 883.26	5 177.65
1999-00	2 123.48	3 670.02	2 191.42	2 629.23	5 941.28
2000-01	2 418.54	4 342.15	3 425.69	3 464.29	8 950.45
2001-02	2 417.05	4 738.11	3 320.31	3 454.24	9 031.70
2002-03	2 013.80	3 844.32	2 242.50	2 681.01	5 663.39
2003-04	2 186.88	3 483.33	2 490.09	2 749.48	6 172.94
2004-05	2 712.84	3 849.87	2 984.89	3 094.28	8 046.72

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

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

82 Volume of Australian imports of cheese, by variety

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
<i>Volume</i>	kt	kt	kt	kt	kt	kt	kt
Processed							
Cheddar	0.25	5.43	4.50	7.83	11.72	11.75	13.36
Emmenthaler	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Gruyere	0.06	0.08	0.08	0.02	0.00	0.00	0.00
Other	8.28	6.90	8.87	3.29	0.45	0.31	0.20
Natural							
Blue vein	0.46	0.66	0.76	0.83	1.09	1.14	1.09
Camembert	0.38	0.32	0.36	0.21	0.19	0.25	0.25
Cheddar	10.90	10.92	13.47	15.91	19.24	18.09	18.83
Colby	0.71	1.18	1.47	1.79	1.89	2.00	1.72
Edam	0.97	0.75	0.75	1.00	0.94	1.05	0.97
Emmenthaler	0.17	0.13	0.18	0.15	0.00	0.00	0.00
Fetta	1.22	1.25	1.32	1.79	2.07	2.32	2.83
Gouda	0.74	0.51	0.44	0.59	0.36	0.77	0.39
Kasseri	0.18	0.15	0.12	0.14	0.15	0.12	0.12
Mozzarella	1.93	2.10	2.81	2.13	2.88	0.69	0.72
Parmesan	0.88	1.08	0.87	1.32	1.58	1.31	0.93
Provolone	0.27	0.26	0.34	0.31	0.26	0.35	0.38
Other	3.51	0.21	0.19	0.55	0.75	0.26	0.24
Total	30.93	31.96	36.54	37.87	43.57	40.41	42.03
Unit value							
Processed							
Cheddar	3.29	3.91	3.83	3.89	3.45	3.57	4.16
Emmenthaler	0.00	4.87	7.84	0.00	0.00	0.00	0.00
Gruyere	6.48	6.69	7.63	7.41	0.00	0.00	0.00
Other	4.25	3.92	4.04	4.68	8.69	10.02	13.01
Natural							
Blue vein	10.69	10.42	10.21	11.13	11.04	10.41	11.46
Camembert	10.44	9.06	9.64	10.07	10.62	9.87	10.53
Cheddar	3.30	3.36	3.26	3.76	3.05	2.97	3.61
Colby	3.84	3.75	3.59	3.76	3.22	2.98	4.11
Edam	4.31	4.17	4.31	4.61	4.34	4.08	4.82
Emmenthaler	5.91	6.18	7.03	7.33	0.00	0.00	0.00
Fetta	6.17	5.39	6.43	5.50	5.65	5.50	5.42
Gouda	6.55	5.55	4.71	4.37	5.80	4.26	6.11
Kasseri	8.89	8.01	9.02	7.99	9.51	9.19	9.56
Mozzarella	3.49	3.36	3.53	3.72	3.50	3.15	3.35
Parmesan	10.63	9.67	9.62	8.53	7.33	9.76	10.85
Provolone	8.62	8.19	8.64	9.20	9.62	9.13	9.13
Other	5.44	6.15	6.46	5.16	4.26	7.41	7.73
Average	4.52	4.19	4.13	4.41	3.87	3.93	4.48

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

83 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	5 762	12 437	5 355	12 096	712	1 068
2001	386	6 098	12 540	5 724	12 338	743	1 086
2002	394	6 504	12 953	6 018	12 601	733	1 157
2003	398	6 554	12 938	6 161	12 707	852	1 180
2004	403	6 638	13 426	6 321	13 174	883	1 214

^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.

84 Milk production in selected regions and countries

	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Americas							
Canada	8 200	8 164	8 161	8 106	7 964	7 734	7 885
United States	71 373	73 807	75 929	74 994	77 140	77 290	77 477
Asia							
India	35 500	36 000	36 250	36 400	36 200	36 500	37 500
Europe	117 603	119 058	133 232	133 909	na	na	na
European Union a	113 753	115 218	129 392	130 069	131 040	131 847	130 825
Oceania	21 362	21 248	23 407	24 026	25 533	24 982	25 377
Australia b	9 722	10 178	11 172	10 864	11 608	10 636	10 377
New Zealand c	11 640	11 070	12 235	13 162	13 925	14 346	15 000
Total d	373 666	382 406	381 649	385 908	393 659	397 836	403 413

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. **na** Not available.

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

85 Production of dairy products in selected regions and countries

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Butter								
Australia abc	158	164	187	183	172	178	149	132
Europe								
Russian Federation	280	270	260	265	270	280	280	270
European Union d	1 730	1 721	1 731	1 995	2 021	2 226	2 226	2 150
Japan e	87	89	86	88	80	83	80	80
New Zealand bef	307	343	316	344	352	370	390	407
United States	522	530	579	570	559	615	563	567
Total	5 001	5 296	5 474	5 762	6 098	6 504	6 554	6 638
Cheese								
Australia a	290	310	327	373	376	431	368	381
Europe								
Russian Federation	165	170	185	220	260	340	335	330
European Union d	5 557	5 151	5 290	5 861	5 865	5 993	6 100	6 345
Japan f	34	35	35	34	34	36	35	35
New Zealand g	240	266	245	297	281	312	301	313
United States	3 325	3 398	3 581	3 746	3 747	3 877	3 881	4 026
Total	11 378	11 750	12 223	12 437	12 540	12 953	12 938	13 426
Skim milk powder								
Australia a	223	215	255	264	265	261	215	182
Europe								
Russian Federation	170	170	130	125	130	140	145	125
European Union d	1 146	1 092	1 108	1 322	1 215	1 369	1 326	1 090
Japan	200	202	192	194	175	183	183	183
New Zealand g	211	215	203	197	227	255	299	301
United States	552	515	617	659	641	724	721	638
Total	3 178	3 055	3 183	3 399	3 402	3 676	3 655	3 363

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.

86 Volume of exports of dairy products, by selected countries

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Butter								
Australia ab	110	105	117	137	120	123	111	83
European Union c								
Net exports	219	168	161	185	196	222	307	347
New Zealand ab	315	315	279	338	347	343	386	391
Russian Federation	6	6	3	3	3	5	5	5
Ukraine	59	10	8	31	53	15	18	35
United States	18	3	2	4	3	3	10	0
Cheese								
Australia a	128	153	175	220	219	218	208	212
European Union c								
Net exports	481	419	376	483	485	516	514	500
New Zealand ab	236	232	240	253	251	277	290	292
Switzerland	61	63	58	60	60	60	na	na
Skim milk powder								
Australia a	192	178	220	218	203	210	181	155
Canada	30	34	41	32	46	49	36	17
European Union c								
Net exports	283	175	272	453	284	267	339	285
New Zealand ad	215	197	205	175	195	248	314	312
United States	117	104	217	142	96	126	141	231

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. na Not available.

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.

87 Volume of imports of dairy products, by selected countries

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Butter								
European Union a	88	95	105	88	93	92	92	90
Japan	1	1	0	0	0	4	13	7
Poland	5	1	8	11	3	5	5	5
Russian Federation	250	150	55	60	110	120	160	170
Switzerland	5	4	5	5	5	5	5	5
Ukraine	3	0	3	1	2	1	0	0
Cheese								
Canada	23	23	25	29	27	28	24	24
European Union a	109	124	142	134	142	116	127	102
Japan	171	184	187	205	202	204	194	219
United States	141	156	195	186	198	214	216	209
Skim milk powder								
European Union a	73	66	73	64	48	30	56	26
India	0	1	18	17	0	0	0	15
Japan	74	57	57	52	53	44	43	37
Mexico	133	93	123	129	141	132	173	170
Peru	10	11	13	13	13	9	9	8

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.

88 Stocks of dairy products in principal producing countries

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Butter								
Australia a	20	16	21	14	6	2	2	2
Canada	15	9	14	15	20	13	13	14
European Union b	191	272	295	136	151	248	276	232
New Zealand c	88	86	93	72	50	51	31	21
United States	10	12	11	11	25	72	45	20
Total	418	493	544	322	315	451	421	333
Cheese								
Australia a	93	88	77	65	58	73	55	43
Canada	44	44	42	46	49	52	59	59
European Union c	1 290	1 164	1 148	1 131	1 170	1 160	1 153	1 140
New Zealand c	41	41	13	34	43	51	36	29
United States	218	235	282	322	301	332	337	322
Total	1 933	1 932	1 903	1 839	1 667	1 708	1 698	1 668
Skim milk powder								
Australia a	31	29	19	2	18	16	7	12
Canada	13	12	6	17	19	8	23	41
European Union b	227	326	280	51	45	188	218	77
New Zealand d	60	67	54	71	98	100	80	55
United States	57	69	113	288	408	521	442	232
Total	595	693	667	633	804	1 038	943	595

a Year ending 30 June. **b** Regarded as fifteen countries to 1999, then twenty five countries from 2000. **c** Regarded as fifteen countries. **d** Year ending 31 May.

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

89 Major components of Australian farm costs

	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 010	1 123	1 060	1 107	1 091	1 120	1 188	1 236
Fertiliser	1 095	941	1 024	1 065	1 244	1 378	1 651	1 760
Chemicals	916	866	924	993	1 059	1 139	1 349	1 480
Seed and fodder	2 233	2 354	2 600	2 396	2 437	3 131	2 928	2 801
Marketing	2 041	2 094	2 059	2 268	2 306	1 955	2 519	2 923
Repairs and maintenance	1 742	1 572	1 522	1 580	1 706	1 768	1 920	2 003
Other	2 550	3 142 ^a	2 606	2 591	2 828	3 064	2 937	2 954
Total	11 587	12 092	11 795	12 000	12 671	13 555	14 492	15 157
Other costs								
Wages	2 545	2 352	2 230	2 284	2 445	2 667	2 738	2 983
Interest paid	2 595	2 462	2 220	1 838	1 695	2 069	2 182	2 180
Other overheads	331	315	276	303	337	344	356	360
Total	5 471	5 129	4 726	4 425	4 477	5 080	5 276	5 523
Total cash costs	17 058	17 221	16 521	16 425	17 148	18 635	19 769	20 680
Depreciation	2 950	2 947	2 871	2 915	3 039	3 073	3 144	3 230
Total farm costs	20 008	20 168	19 392	19 340	20 187	21 708	22 913	23 910
	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 ^s
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Materials and services								
Fuel	1 360	1 230	1 450	1 671	1 580	1 520	1 626	1 765
Fertiliser	1 805	1 906	1 840	1 920	1 980	1 820	1 827	1 851
Chemicals	1 497	1 576	1 604	1 664	1 760	1 550	1 649	1 691
Seed and fodder	2 948	2 974	2 847	3 072	3 226	4 874	4 317	4 302
Marketing	2 726	2 901	3 144	3 198	3 395	2 435	3 507	3 349
Repairs and maintenance	2 011	2 154	2 150	2 262	2 328	2 392	2 453	2 522
Other	2 920	2 916	3 017	3 184	3 339	3 329	3 378	3 473
Total	15 266	15 657	16 052	16 971	17 608	17 919	18 757	18 953
Other costs								
Wages	2 976	3 133	3 250	3 360	3 367	3 226	3 588	3 661
Interest paid	1 976	1 917	2 023	2 249	2 087	2 295	2 448	2 579
Other overheads	360	364	372	389	400	412	422	432
Total	5 313	5 414	5 645	5 998	5 854	5 933	6 458	6 672
Total cash costs	20 579	21 071	21 697	22 969	23 463	23 852	25 215	25 625
Depreciation	3 306	3 439	3 526	3 687	3 796	3 915	4 017	4 122
Total farm costs	23 885	24 511	25 223	26 657	27 258	27 767	29 232	29 747

^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.

90 Indexes of prices paid by farmers in Australia

	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	72.0	80.6	82.3	82.5	85.3	87.6	88.9	95.7	101.1
Fodder and feedstuffs	68.9	76.6	79.0	75.5	80.5	78.5	79.9	92.2	101.4
Store and breeding stock	83.0	92.3	88.6	82.0	79.7	78.8	95.0	96.7	96.1
Total	73.4	81.7	81.8	77.6	80.5	79.1	85.1	93.9	100.2
Fertiliser	68.3	76.9	82.4	85.0	90.3	88.7	87.1	89.6	98.2
Chemicals and medicines	89.4	91.2	93.2	96.4	97.5	98.0	97.2	97.9	98.1
Fuel and lubricants	88.7	80.4	91.6	106.0	99.6	104.1	100.5	96.6	100.4
Electricity	86.3	90.4	93.4	96.7	100.4	101.8	100.9	98.3	97.7
Maintenance									
Plant and equipment	63.9	67.7	72.9	79.3	83.6	86.7	89.9	92.5	95.3
Structures	69.2	73.8	79.8	84.9	87.5	89.4	91.0	92.5	94.6
Total	65.5	69.6	75.0	81.0	84.8	87.5	90.2	92.5	95.1
Contracts	71.4	76.4	81.0	86.5	90.0	92.8	95.6	97.3	98.4
Other materials and services	74.0	79.4	85.7	90.2	91.2	92.4	94.1	96.8	100.1
Total	74.6	79.5	83.2	85.3	87.4	87.8	90.2	94.2	98.7
Labor	68.5	73.5	78.9	82.7	86.5	89.7	91.0	92.3	95.1
Marketing									
Freight outwards	84.2	87.5	90.9	95.5	96.9	97.9	98.5	98.5	98.5
Selling expenses	74.8	83.0	85.5	85.7	86.9	86.7	89.3	91.7	95.6
Total	76.5	83.8	86.4	87.4	88.7	88.7	91.0	92.9	96.2
Overheads									
Interest paid	133.9	169.6	199.9	170.3	139.6	107.4	100.2	113.2	127.9
Rates and taxes	67.1	73.2	80.4	87.4	89.3	91.5	92.0	94.2	92.2
Insurance	50.6	53.7	62.0	64.8	64.2	67.0	71.3	74.3	90.8
Other overheads	71.2	75.6	80.6	85.2	92.3	94.1	95.7	96.8	99.2
Total	93.9	110.6	126.7	120.1	109.6	96.9	94.6	101.6	109.3
Capital items									
Plant and equipment	73.0	77.0	80.5	82.3	83.9	87.4	91.7	94.3	97.3
Structures	70.7	75.5	81.9	87.5	89.5	91.7	93.4	94.8	95.8
Total	72.7	76.8	80.7	83.0	84.6	88.0	91.9	94.4	97.1
Total prices paid	77.4	84.4	90.1	90.9	90.8	89.5	91.1	95.0	99.5
Excluding capital items	77.9	85.3	91.3	91.9	91.6	89.8	91.1	95.1	99.8
Excluding capital and overheads	73.7	79.0	82.9	85.1	87.4	88.2	90.4	93.6	97.7
Excluding seed, fodder and store and breeding stock	78.4	85.1	92.1	94.0	93.2	92.0	92.6	95.2	99.3

Continued

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

	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Materials and services									
Seed, fodder and livestock									
Seed, seedlings and plants	99.2	100.0	100.6	102.7	105.2	112.9	118.3	104.9	104.5
Fodder and feedstuffs	98.9	100.0	91.9	90.0	93.6	105.5	167.5	148.3	148.0
Store and breeding stock	89.4	100.0	100.9	105.0	126.0	145.3	125.9	144.0	155.5
Total	96.6	100.0	94.7	94.7	102.7	116.1	149.8	141.4	144.3
Fertiliser	99.2	100.0	102.7	99.8	106.4	104.3	104.5	103.6	106.2
Chemicals and medicines	99.0	100.0	100.4	101.6	103.3	105.6	108.0	110.0	111.9
Fuel and lubricants	104.9	100.0	92.2	112.0	137.6	122.9	121.7	138.6	168.4
Electricity	99.4	100.0	100.7	100.2	99.9	100.4	100.5	100.0	101.3
Maintenance									
Plant and equipment	97.6	100.0	102.3	106.1	112.0	115.2	118.4	121.4	124.6
Structures	95.4	100.0	102.8	104.6	109.3	112.5	115.7	119.1	122.7
Total	96.9	100.0	102.3	105.6	111.1	114.3	117.5	120.6	123.9
Contracts	99.6	100.0	104.3	107.9	114.4	117.7	120.9	123.8	126.8
Other materials and services	100.0	100.0	102.3	104.2	108.9	112.1	115.5	118.3	121.1
Total	98.6	100.0	98.6	101.1	109.0	112.9	125.4	125.1	130.3
Labor	97.0	100.0	103.7	107.1	110.1	113.3	117.9	121.6	125.7
Marketing									
Freight outwards	98.6	100.0	100.3	102.5	107.0	110.1	113.5	116.3	119.0
Selling expenses	95.5	100.0	102.8	105.2	109.3	112.5	116.0	118.8	121.6
Total	96.1	100.0	102.7	105.0	109.3	112.4	115.9	118.7	121.5
Overheads									
Interest paid	117.0	100.0	90.6	98.8	111.2	104.2	110.7	118.1	123.7
Rates and taxes	95.6	100.0	102.1	107.1	112.4	115.5	119.1	121.9	124.8
Insurance	98.1	100.0	102.8	105.1	109.8	118.6	124.5	128.8	133.4
Other overheads	100.5	100.0	103.1	104.1	108.7	111.9	115.4	118.1	121.0
Total	106.5	100.0	96.6	102.5	111.3	109.9	115.2	120.6	125.1
Capital items									
Plant and equipment	99.0	100.0	103.3	106.6	112.7	116.0	119.2	122.2	125.4
Structures	96.7	100.0	101.7	103.8	108.9	112.0	115.3	118.6	122.2
Total	98.7	100.0	103.0	106.1	111.9	115.2	118.3	121.3	124.4
Total prices paid	99.4	100.0	99.9	103.2	110.0	112.8	121.2	123.0	127.4
Excluding capital items	99.5	100.0	99.4	102.7	109.6	112.3	121.4	123.1	127.7
Excluding capital and overheads	98.0	100.0	100.1	102.7	109.2	112.9	122.8	123.6	128.3
Excluding seed, fodder and store and breeding stock	99.9	100.0	100.9	104.7	111.3	112.0	115.3	119.2	123.9

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.

91 Indicative interest rates for the Australian farm sector

	Major trading banks		
	Australian broadacre farms a %	Overdrafts for small businesses b %	90 day bank bills %
1970-71		na	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

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.

92 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	23 691
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	763	3 379	2 067	40 324
2004-05	39 481	837	3 112	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.

93 Australian tractor sales, by type

	By power segment ^a				By wheel drive type			Total
	Under 30 kW	30–75 kW	75–150 kW	Over 150 kW	2WD ^b	4UWD ^c	4EWD ^d	
	no.	no.	no.	no.	no.	no.	no.	no.
1980	1 509	9 815	2 857	425	na	na	na	14 606
1981	1 926	9 993	2 788	761	na	na	na	15 468
1982	1 735	8 021	2 447	614	8 113	3 918	786	12 817
1983	1 750	7 477	2 239	478	6 382	4 514	1 048	11 944
1984	2 368	7 610	2 379	677	6 168	5 638	1 228	13 034
1985	2 168	7 274	2 064	687	5 007	6 004	1 182	12 193
1986	1 779	4 797	924	156	2 953	4 318	385	7 656
1987	1 610	4 469	1 029	168	2 756	4 202	318	7 276
1988	1 971	5 371	1 057	167	2 888	5 327	351	8 566
1989	2 540	6 658	1 363	223	3 006	7 392	386	10 784
1990	2 148	5 513	1 267	328	2 410	6 418	428	9 256
1991	1 470	3 304	659	148	1 407	4 010	164	5 581
1992	1 335	3 328	917	218	1 330	4 207	261	5 798
1992-93	1 290	3 336	946	312	1 277	4 260	347	5 884
1993-94	1 200	3 846	1 133	411	1 267	4 936	387	6 590
1994-95	1 048	4 279	1 354	508	1 114	5 697	380	7 191
1995-96	1 017	4 160	1 617	860	1 024	5 963	664	7 651
1996-97	1 131	4 058	1 815	1 205	851	6 555	803	8 209
1997-98	1 057	4 109	2 156	1 614	704	7 029	1 203	8 936
1998-99	1 119	4 504	1 634	1 214	621	6 739	1 111	8 471
1999-00	1 105	3 944	1 332	1 063	516	6 258	669	7 443
2000-01	1 147	3 563	916	814	382	5 582	476	6 440
2001-02	1 119	4 812	1 316	937	461	7 173	550	8 184
2002-03	1 207	3 986	1 356	870	314	6 629	476	7 419
2003-04	1 833	4 519	1 831	1 248	267	8 534	630	9 431
2004-05	na	na	na	na	na	na	na	na
2002 quarter								
March	282	1 147	345	289	112	1 763	188	2 063
June	287	1 345	461	387	135	2 119	226	2 480
September	269	979	249	107	71	1 484	49	1 604
December	298	1 053	261	135	97	1 580	70	1 747
2003 quarter								
March	303	804	335	298	60	1 494	186	1 740
June	337	1 150	511	330	86	2 071	171	2 328
September	362	1 009	348	128	64	1 723	60	1 847
December	549	1 320	377	249	94	2 271	130	2 495
2004 quarter								
March	488	919	518	451	50	2 088	238	2 376
June	434	1 271	588	420	59	2 452	202	2 713
September	407	1 172	414	344	65	2 214	58	2 337
December	571	1 434	450	204	87	2 486	86	2 659
2005 quarter								
March	571	1 112	459	338	69	2 225	186	2 480
June	na	na	na	na	na	na	na	na
September	na	na	na	na	na	na	na	na

^a Tractor power ratings refer to power takeoff, power in kilowatts. ^b Two wheel drive. ^c Four unequal diameter wheel drive. ^d Four equal diameter wheel drive. **na** Not available.

Source: Tractor and Machinery Association of Australia, Melbourne.

94 Value of Australian trade in selected farm machinery

	Imports ^a				Exports			
	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1971-72	22 081	541	1 859	196	513	2 120	4 696	256
1972-73	36 711	466	4 346	289	662	2 550	8 260	1 030
1973-74	41 606	1 008	9 495	572	411	3 016	9 453	1 111
1974-75	84 148	2 787	21 815	674	790	6 975	15 628	2 247
1975-76	116 290	3 215	21 164	665	2 440	5 889	12 080	626
1976-77	149 663	8 275	38 867	1 177	946	3 314	16 954	747
1977-78	110 697	8 338	46 932	1 744	1 165	4 775	8 888	2 293
1978-79	111 518	7 991	37 021	1 759	2 064	2 178	10 431	873
1979-80	169 008	10 472	62 964	2 316	3 742	2 578	12 268	1 481
1980-81	198 398	11 206	83 650	3 847	8 053	3 733	24 308	9 009
1981-82	260 771	14 252	89 061	3 362	6 638	6 224	12 897	4 002
1982-83	149 386	8 558	52 568	2 529	7 852	2 157	11 357	2 036
1983-84	174 936	10 585	109 281	3 516	4 804	1 935	4 764	2 236
1984-85	241 827	16 372	119 629	4 074	2 201	1 215	6 635	2 578
1985-86	198 476	9 822	68 493	3 555	7 352	1 268	13 745	5 945
1986-87	58 178	4 333	22 588	1 969	5 255	767	8 660	1 333
1987-88	124 132	7 528	39 628	4 189	2 892	1 214	18 183	609
1988-89	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

^a Fob at the port of origin.

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

95 Australian fertiliser prices, by type ^a

	Single superphosphate ^b	Diammonium phosphate ^b	Ammonium sulphate ^c	Potassium chloride ^c	Urea ^c	Index of prices paid for fertiliser ^d
	\$/t	\$/t	\$/t	\$/t	\$/t	
1970	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	106.2

^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.

96 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
2000 quarter							
March	74.3	64.5	253.4	232.5	198.2	218.3	177.7
June	79.6	71.9	266.8	244.8	333.7	237.0	190.5
September	81.7	69.5	287.1	249.4	347.7	278.4	195.5
December	88.2	64.8	319.8	294.9	413.9	296.6	211.2
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	61.4	94.1	333.1	277.2	435.2	374.7	199.4
September	61.9	99.5	376.5	296.4	432.2	357.6	201.0

^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.

97 Australian fertiliser consumption, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1985-86	726.3	340.0	130.0
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

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

98 Volume of Australian imports of fertiliser, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1985-86	150.4	121.3	116.7
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	842.2	206.9
2000-01	637.3	704.7	202.6
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

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

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

	Sulphur		Phosphate rock						Total kt
	Canada kt	Other kt	Christmas Island kt	China kt	Morocco kt	Nauru kt	Togo kt	Other 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

na Not available.

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

100 Volume of Australian trade in manufactured fertiliser, by type

	Imports					Exports		
	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Other ammonium	Urea	Potassic fertiliser	Nitrogen fertiliser	Ammonium phosphates
	kt	kt	kt	kt	kt	kt	kt	kt
1970-71	3.1	0.0	0.0	15.1	na	na	0.8	0.0
1971-72	2.4	0.0	0.0	27.3	na	na	7.8	0.0
1972-73	2.0	0.0	0.0	9.3	1.3	na	21.4	0.0
1973-74	1.8	0.0	0.0	4.1	0.1	na	37.9	0.0
1974-75	0.3	0.0	0.0	6.5	4.3	na	7.3	0.0
1975-76	0.1	0.0	0.0	0.3	4.7	na	47.9	0.0
1976-77	20.7	0.0	0.0	6.3	17.9	na	1.2	0.0
1977-78	10.1	0.0	0.0	9.4	10.2	na	7.2	0.0
1978-79	66.3	0.2	0.0	8.9	16.7	na	8.2	0.0
1979-80	0.0	2.2	0.0	30.7	41.2	na	24.2	0.0
1980-81	0.0	51.2	9.0	38.7	40.2	na	22.9	0.0
1981-82	0.0	50.5	8.9	62.7	43.2	na	18.5	0.0
1982-83	25.2	183.6	32.4	22.7	76.6	na	21.2	0.0
1983-84	35.1	257.5	45.9	14.7	64.0	na	4.5	0.0
1984-85	55.4	306.6	54.4	46.3	138.2	na	34.6	0.0
1985-86	48.1	229.4	40.2	41.7	144.2	na	6.2	0.0
1986-87	76.4	201.8	38.2	80.3	177.2	na	10.3	0.0
1987-88	88.4	124.7	15.3	98.9	212.0	na	16.1	0.1
1988-89	97.3	250.3	103.1	113.1	255.1	299.4	46.5	0.1
1989-90	114.3	320.3	164.2	78.6	361.7	289.7	48.3	0.1
1990-91	157.8	347.3	141.1	42.9	388.8	247.4	96.6	0.1
1991-92	264.4	355.0	206.2	90.2	364.5	244.4	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

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 fertiliser imports, by state

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
New South Wales								
1999-00	20.7	70.6	115.6	3.0	10.3	137.6	18.4	164.8
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	99.9
Victoria								
1999-00	91.2	149.4	191.4	5.7	0.9	318.7	94.4	349.0
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	397.9
Queensland								
1999-00	6.1	45.4	69.7	0.8	26.9	293.3	105.1	0.1
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
Western Australia								
1999-00	75.9	118.5	156.5	0.2	25.2	514.0	101.5	107.5
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
South Australia								
1999-00	26.0	173.5	46.9	0.0	1.8	125.6	5.2	0.0
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
Tasmania								
1999-00	20.5	12.8	0.0	0.0	0.0	10.5	20.5	72.4
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
Australia								
1999-00	240.4	570.2	580.0	9.8	65.1	1 399.8	353.3	755.6
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	796.6

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

102 Value of Australian fertiliser imports, by state ^a

	Triple superphosphate \$m	Diammonium phosphate \$m	Monammonium phosphate \$m	Ammonium fertilisers		Urea \$m	Potassic fertiliser \$m	Phosphate rock \$m
				Sulphate \$m	Nitrate \$m			
New South Wales								
1999-00	3.99	16.86	27.44	0.54	2.09	23.22	4.22	12.19
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	6.21
Victoria								
1999-00	18.68	36.72	47.07	1.03	0.21	53.60	22.00	25.06
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	22.77
Queensland								
1999-00	1.32	11.63	17.45	0.17	6.06	48.36	23.90	0.02
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
Western Australia								
1999-00	14.65	29.48	38.62	0.04	6.48	83.23	23.55	7.91
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
South Australia								
1999-00	5.57	42.55	11.53	0.01	0.47	22.53	1.30	0.03
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
Tasmania								
1999-00	1.88	3.40	0.00	0.00	0.00	1.56	4.26	4.97
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
Australia								
1999-00	46.09	140.64	142.10	1.80	15.31	232.51	79.22	54.00
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	48.72

^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	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
1998 quarter								
March	155.4	306.7	171.7	25.0	12.5	220.0	109.6	265.1
June	79.8	242.8	112.4	0.3	13.9	344.2	117.2	187.3
September	62.3	92.5	48.2	19.6	7.5	193.3	77.7	342.1
December	47.5	101.7	61.6	0.3	16.9	162.1	76.3	306.3
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	241.3
September	19.3	16.2	117.9	3.9	40.7	206.2	115.1	146.7

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

104 Value of Australian fertiliser imports, by quarter ^a

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate		fertiliser	rock
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1998 quarter								
March	36.6	91.9	50.4	6.1	3.7	38.5	24.4	17.2
June	20.5	73.6	32.7	0.1	4.0	64.3	25.3	13.2
September	17.3	32.1	16.9	4.3	2.2	37.3	18.2	26.9
December	11.3	36.5	21.0	0.1	4.8	29.1	19.9	22.3
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	14.9
September	3.3	6.6	40.7	0.8	14.6	64.5	30.6	8.7

^a Fob at the port of origin.

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

105 Australian sales and prices of chemicals, by product type

	Herbicides ab \$'000	Fungicides/ plant growth regulants ab \$'000	Insecticides ab \$'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

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.

106 Australian farm fuel prices

	Petrol			Index of prices paid for fuel d
	Lead replacement a c/L	Unleaded b c/L	Off-road diesel c 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	92.2
1999-00	94.11	85.13	41.21	112.0
2000-01	100.26	98.20	53.36	137.6
2001-02	93.11	89.78	46.80	122.9
2002-03	94.97	93.96	44.13	121.7
2003-04	109.54	95.71	55.12	138.6
2004-05	na	106.85	71.05	168.4

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.

107 Persons employed in agriculture, forestry and fisheries ^a

	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	220.3	229.5	205.8	211.5	217.3	200.5	201.7	203.5
Horticulture and fruit	92.0	89.0	93.3	82.8	80.3	77.4	93.0	87.1
Other crops	12.5	13.0	13.5	12.5	11.5	17.0	16.9	18.3
Dairy cattle	22.8	24.0	21.5	22.0	22.8	34.2	30.1	39.9
Poultry	10.5	7.8	10.3	9.3	10.5	10.1	11.8	10.2
Other livestock	22.5	23.3	22.8	21.8	21.3	17.4	16.4	16.1
Agriculture – other	na	na	na	na	na	na	na	na
Total	380.7	386.6	367.2	359.9	363.3	356.6	369.9	375.0
Services to agriculture b	22.3	22.1	16.0	17.5	20.3	19.5	18.6	23.0
Forestry and logging	11.4	10.9	11.3	11.0	11.3	12.4	11.4	10.9
Commercial fishing	14.2	15.4	13.5	15.8	13.8	14.8	18.7	13.0
Total	428.5	434.9	408.1	404.1	408.7	403.4	418.5	421.9
	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	'000	'000	'000	'000	'000	'000	'000	'000
Agriculture								
Grains, sheep and beef cattle	202.7	199.0	211.0	207.7	214.3	166.1	164.9	133.3
Horticulture and fruit	91.0	91.7	98.9	92.5	97.3	93.1	94.8	81.7
Other crops	20.6	19.9	19.3	15.6	17.2	13.1	10.8	15.9
Dairy cattle	38.2	32.6	34.6	29.1	31.0	25.8	19.8	21.6
Poultry	9.4	8.3	8.8	8.6	9.3	11.0	9.7	9.4
Other livestock	16.5	14.3	12.7	9.4	12.3	12.1	10.0	10.3
Agriculture – other	na	na	na	10.4	5.0	4.5	10.4	40.2
Total	378.2	365.8	385.2	373.3	386.5	325.6	320.4	312.3
Services to agriculture b	25.6	27.9	30.4	28.2	25.8	24.1	25.3	24.5
Forestry and logging	14.0	14.0	8.7	13.5	13.2	9.7	12.1	12.2
Commercial fishing	13.8	14.0	15.6	19.4	18.4	17.4	15.7	13.9
Total	431.6	421.7	439.9	435.2	444.3	376.8	373.5	362.9

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.

108 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	0.5	1.8	3.1	3.2	0.0
1998-99	2.0	5.3	2.0	2.4	1.2
1999-00	3.4	1.8	3.2	2.2	2.4
2000-01	6.0	3.5	2.8	5.5	6.0
2001-02	3.7	2.1	3.0	4.2	2.9
2002-03	3.4	3.7	5.7	4.4	3.1
2003-04	3.6	6.1	3.7	4.8	2.4
2004-05	3.2	3.7	3.6	4.3	2.4

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

Sources: ABS, *Average Weekly Earnings, Australia*, cat. no. 6302.0, Canberra (derived from average weekly earnings for all employees series); ABS, *Consumer Price Index*, cat. no. 6401.0, Canberra; DEWR, *Pastoral Industry Award 1998*, AW792378; DEWR, *Agriculture, Forestry and Fishing Industry Sector - Minimum Wage Order - Victoria 1997*, AW767376; ABARE.

109 Summary of Australian fisheries statistics

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 p
Prawns									
Production as	kt	29.6	31.2	26.8	30.1	29.4	26.3	27.2	23.5
Value of production	\$m	385.3	416.4	414.6	453.3	428.7	360.0	355.3	326.0
Exports b	kt	12.4	12.0	11.6	12.1	11.9	9.5	9.4	10.3
Value of exports	\$m	234.2	224.3	243.8	291.0	262.8	208.2	160.6	163.1
Imports b	kt	14.8	15.8	15.7	15.6	17.6	18.1	24.4	29.9
Value of imports	\$m	191.1	202.6	192.9	233.5	221.4	220.2	227.6	257.8
Rock lobster									
Production ac	kt	16.6	19.4	20.5	16.8	14.3	17.1	19.9	17.9
Value of production c	\$m	377.1	438.5	545.6	481.0	501.8	460.2	408.3	409.1
Exports b	kt	12.3	14.4	15.5	13.3	10.9	11.5	13.5	12.6
Value of exports	\$m	424.5	451.4	577.7	532.6	492.6	463.1	426.8	439.6
Abalone									
Production as	kt	3.8	5.6	5.6	5.7	5.9	5.2	5.8	5.9
Value of production	\$m	182.1	172.9	220.7	276.4	247.4	215.7	196.1	251.8
Exports b	kt	3.0	3.4	3.8	3.5	4.0	4.2	4.9	4.0
Value of exports	\$m	191.7	184.6	223.4	249.3	263.1	216.1	237.7	263.1
Scallops									
Production a	kt	10.4	11.3	12.0	9.2	5.6	8.4	9.2	15.3
Value of production	\$m	39.8	37.7	43.2	39.5	22.8	32.8	23.6	45.5
Exports b	kt	1.3	1.6	1.7	2.1	1.5	1.2	1.5	1.2
Value of exports	\$m	36.4	33.2	42.0	53.4	34.4	28.7	34.9	32.6
Tuna									
Production ads	kt	11.9	16.7	16.2	16.1	15.9	14.7	14.4	13.9
Value of production d	\$m	130.8	221.5	256.7	328.8	322.9	316.6	187.3	184.0
Exports b	kt	7.6	8.5	12.6	14.8	13.9	12.6	12.8	10.9
Value of exports	\$m	104.5	120.4	259.3	331.9	325.8	321.0	273.5	165.7
Imports b	kt	18.7	21.8	18.2	23.6	25.3	33.9	47.4	37.5
Value of imports	\$m	66.4	82.0	70.6	82.8	104.9	123.5	109.8	107.7
Other fin fish									
Production as	kt	134.3	126.5	113.5	122.0	137.3	150.8	163.5	132.5
Value of production	\$m	395.6	442.7	454.3	489.7	546.3	560.0	551.3	437.1
Exports b	kt	16.5	17.7	15.0	13.3	17.5	17.4	13.2	15.0
Value of exports	\$m	129.4	154.4	133.7	146.4	176.0	164.2	136.5	138.7
Imports b	kt	72.3	75.9	84.0	85.1	82.3	89.8	91.2	93.3
Value of imports	\$m	328.7	360.3	392.7	426.4	431.8	467.0	435.1	439.6
All fisheries products									
Production s	kt	232.3	236.7	221.9	231.3	237.1	253.0	273.0	na
Value of production	\$m	1 835.7	2 109.8	2 344.0	2 438.8	2 429.7	2 305.1	2 094.9	2 036.4
Edible exports	kt	57.4	61.5	63.9	64.7	64.3	60.2	58.5	57.3
Value of edible exports	\$m	1 181.4	1 223.8	1 536.2	1 716.8	1 661.7	1 484.9	1 319.3	1 236.1
Value of non-edible exports	\$m	308.1	287.6	451.8	451.9	438.5	359.6	332.6	305.7
Edible imports	kt	124.1	132.6	139.9	144.4	146.3	164.7	188.0	186.3
Value of edible imports	\$m	690.1	744.8	780.6	870.3	889.2	950.2	904.9	959.3
Value of non-edible imports	\$m	130.8	135.2	310.5	281.6	310.9	251.6	201.5	212.6

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.

110 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									
1983-84	kt	22.7	16.0	na	na	7.0	15.8	64.0	na
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	26.3	17.1	5.2	8.4	11.4	14.7 ^f	150.8	253.0
2003-04 ^s	kt	27.2	19.9	5.8	9.2	13.5	14.4 ^f	163.5	273.0
2004-05 ^{ps}	kt	23.5	17.9	5.9	15.3	11.3	13.9 ^f	132.5	na
Value									
1983-84 ^s	\$m	145.3	134.0	29.4	24.6	20.1	12.6 ^g	83.0	na
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	360.0	460.2	215.7	32.8	62.1	316.6 ^f	560.0	2 305.1
2003-04 ^s	\$m	355.3	408.3	196.1	23.6	71.8	187.3 ^f	551.3	2 094.9
2004-05 ^{ps}	\$m	326.0	409.1	251.8	45.5	58.6	184.0 ^f	437.1	2 036.4

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.

111 Australian exports of prawns, by product type and destination

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity a								
Headless	t	1 150	926	1 005	785	580	307	437
Hong Kong, China	t	88	47	80	14	14	3	14
Japan	t	821	657	654	539	428	179	150
Spain	t	119	27	0	28	0	0	0
United States	t	5	33	80	98	10	1	3
Other	t	72	108	93	75	127	123	225
Whole	t	10 630	10 096	10 789	10 870	8 739	8 852	9 623
China	t	2 081	1 662	1 231	1 414	780	1 151	1 540
Chinese Taipei	t	155	239	170	254	219	184	74
Hong Kong, China	t	1 132	1 140	1 899	1 777	1 388	925	659
Italy	t	91	72	42	24	52	13	42
Japan	t	4 667	4 614	4 085	4 194	3 815	3 063	3 466
Malaysia	t	101	176	131	180	214	274	75
New Zealand	t	197	139	190	253	237	175	189
Spain	t	1 389	1 157	1 584	915	1 223	1 697	1 972
Thailand	t	280	203	673	1 076	90	124	198
United States	t	3	50	138	45	13	54	29
Other	t	627	766	826	807	773	1 259	1 451
Other	t	215	608	330	270	213	237	242
Chinese Taipei	t	8	54	1	12	8	20	21
Japan	t	40	330	65	49	15	9	12
Singapore	t	13	42	22	19	30	25	13
United States	t	0	3	28	11	0	1	1
Other	t	132	155	112	161	161	182	169
Total	t	11 995	11 630	12 124	11 925	9 532	9 396	10 302
Value								
Headless	\$'000	24 854	20 540	25 162	18 607	12 002	5 353	6 639
Hong Kong, China	\$'000	1 256	704	1 338	310	318	34	387
Japan	\$'000	19 941	16 443	18 200	14 227	9 613	3 917	3 599
Spain	\$'000	1 579	367	0	375	0	0	0
United States	\$'000	106	920	2 048	2 445	298	33	69
Other	\$'000	1 234	1 266	1 395	906	1 773	1 345	2 071
Whole	\$'000	195 710	209 386	258 481	239 367	192 567	151 488	153 243
China	\$'000	34 274	25 777	20 946	23 262	14 914	15 777	19 605
Chinese Taipei	\$'000	3 077	5 985	4 694	5 440	5 153	3 997	1 483
Hong Kong, China	\$'000	18 032	18 655	36 377	32 940	26 874	15 985	9 593
Italy	\$'000	1 730	1 134	896	430	1 074	241	956
Japan	\$'000	101 199	123 510	133 574	129 283	105 331	62 751	68 784
Malaysia	\$'000	1 397	2 423	2 172	3 112	3 890	3 723	567
New Zealand	\$'000	2 426	1 745	2 604	3 223	3 365	2 313	2 305
Spain	\$'000	19 946	15 928	27 703	15 549	17 214	23 069	26 524
Thailand	\$'000	3 695	2 484	11 982	15 066	1 102	1 442	2 290
United States	\$'000	85	580	4 290	906	327	1 189	679
Other	\$'000	11 664	12 879	18 429	11 491	14 724	22 431	22 092
Other	\$'000	3 691	13 863	7 405	4 853	3 676	3 762	3 225
Chinese Taipei	\$'000	270	1 428	32	309	169	372	453
Japan	\$'000	852	9 262	3 505	1 459	345	181	241
Singapore	\$'000	295	730	481	379	556	523	169
United States	\$'000	0	86	681	372	0	27	16
Other	\$'000	1 841	1 917	1 510	2 271	2 606	2 660	2 195
Total	\$'000	224 254	243 789	291 048	262 827	208 245	160 603	163 107

a Product weight.

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

112 Australian imports of prawns, by products type and source

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity a								
Fresh, chilled or frozen	t	9 632	10 423	10 188	11 972	13 086	18 860	22 590
China	t	27	81	160	381	544	3 894	4 034
Chinese Taipei	t	24	34	118	42	41	102	92
India	t	956	873	1 652	2 571	2 763	2 920	3 096
Indonesia	t	402	557	1 198	1 526	1 629	1 617	1 669
Malaysia	t	629	768	660	587	395	190	183
Myanmar	t	400	422	596	716	644	564	528
New Caledonia	t	432	306	186	184	123	104	189
Papua New Guinea	t	103	142	151	133	161	196	59
Singapore	t	175	163	232	91	141	211	101
Thailand	t	5 162	5 769	3 823	3 677	3 597	4 911	5 741
Viet Nam	t	1 059	1 081	1 256	1 840	2 802	3 898	6 260
Other	t	261	228	155	223	245	253	637
Canned	t	5 654	5 133	5 217	5 432	5 032	5 584	7 247
Malaysia	t	1 277	1 254	1 364	1 356	1 202	1 089	1 244
Thailand	t	3 488	3 126	3 082	3 097	3 064	3 328	4 035
Viet Nam	t	64	90	74	94	167	319	437
Other	t	825	662	696	885	599	848	1 530
Other	t	476	177	168	155	29	5	18
China	t	2	2	3	3	0	0	16
Malaysia	t	31	19	69	65	0	2	0
Thailand	t	265	77	66	85	26	1	0
Viet Nam	t	39	45	24	2	0	0	0
Other	t	139	35	6	1	2	1	2
Total	t	15 761	15 733	15 572	17 559	18 147	24 448	29 855
Value								
Fresh, chilled or frozen	\$'000	143 517	145 517	173 238	165 095	174 484	183 537	201 187
China	\$'000	181	985	3 468	3 362	5 704	28 476	26 497
Chinese Taipei	\$'000	482	730	2 601	626	714	1 297	1 054
India	\$'000	13 165	12 222	32 505	38 963	39 759	34 872	32 149
Indonesia	\$'000	6 215	6 926	15 776	17 934	17 501	13 423	10 820
Malaysia	\$'000	6 117	7 336	7 019	6 321	3 889	1 783	1 826
Myanmar	\$'000	4 890	4 615	7 405	8 183	6 451	4 867	4 599
New Caledonia	\$'000	6 260	4 721	3 164	3 128	2 044	1 571	2 370
Papua New Guinea	\$'000	1 103	975	1 320	1 139	1 357	1 307	406
Singapore	\$'000	2 133	1 938	2 591	1 325	1 608	2 083	1 063
Thailand	\$'000	81 700	86 645	70 400	51 886	47 027	44 250	45 556
Viet Nam	\$'000	17 921	15 085	24 825	29 554	45 441	47 333	69 650
Other	\$'000	3 349	3 340	2 165	2 674	2 990	2 275	5 196
Canned	\$'000	51 147	45 373	57 917	54 553	45 386	44 020	56 491
Malaysia	\$'000	9 709	9 676	12 662	12 030	10 082	8 072	8 215
Thailand	\$'000	35 067	30 995	37 910	33 392	29 341	27 035	34 433
Vietnam	\$'000	372	364	515	908	1 558	2 726	3 854
Other	\$'000	6 000	4 339	6 830	8 223	4 404	6 187	9 989
Other	\$'000	7 922	2 026	2 369	1 782	365	38	116
China	\$'000	12	22	10	34	1	4	92
Malaysia	\$'000	333	115	852	609	3	12	1
Thailand	\$'000	5 364	1 200	1 033	1 055	334	12	0
Viet Nam	\$'000	302	352	309	17	0	6	0
Other	\$'000	1 911	337	165	66	28	4	24
Total	\$'000	202 586	192 916	233 524	221 430	220 236	227 595	257 794

a Product weight.

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

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

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity a								
Tails b	t	1 464	1 693	1 037	870	1 698	2 062	1 849
Chinese Taipei	t	72	82	18	5	32	0	9
Hong Kong, China	t	68	10	10	3	16	10	18
Japan	t	182	234	51	18	57	141	38
United States	t	1 113	1 331	915	831	1 476	1 757	1 748
Other	t	29	36	42	14	118	153	36
Whole c	t	12 752	13 348	11 882	9 697	9 468	10 889	10 184
Chinese Taipei	t	4 010	3 900	3 182	2 094	1 557	1 369	1 194
Hong Kong, China	t	3 219	4 691	4 658	3 983	3 603	4 750	4 323
Japan	t	3 327	3 857	3 306	2 585	2 940	2 477	2 096
Singapore	t	213	334	218	317	283	306	214
United States	t	151	113	215	234	53	60	57
Other	t	1 832	454	303	484	1 032	1 927	2 300
Other	t	176	448	426	374	368	501	603
France	t	62	51	16	6	20	12	66
Hong Kong, China	t	0	34	59	59	8	18	8
Japan	t	81	315	254	300	296	414	395
United States	t	14	11	26	3	18	47	48
Other	t	19	37	71	6	26	10	87
Total	t	14 392	15 490	13 345	10 942	11 535	13 453	12 636
Value								
Tails b	\$'000	76 064	95 289	60 309	65 362	112 922	102 506	100 572
Chinese Taipei	\$'000	1 770	2 611	654	327	1 244	0	233
Hong Kong, China	\$'000	2 542	469	600	191	809	475	594
Japan	\$'000	6 831	8 861	4 138	1 742	3 101	5 894	2 031
United States	\$'000	63 773	81 393	53 243	61 932	102 178	90 023	96 050
Other	\$'000	1 147	1 955	1 675	1 171	5 590	6 114	1 665
Whole c	\$'000	372 542	472 136	460 785	420 391	343 797	318 499	329 607
Chinese Taipei	\$'000	101 669	131 100	107 896	82 321	51 730	35 547	36 919
Hong Kong, China	\$'000	107 096	167 977	195 809	189 134	144 334	156 743	147 900
Japan	\$'000	89 872	141 531	124 399	105 549	102 735	68 392	65 147
Singapore	\$'000	5 760	10 556	7 297	12 863	10 448	7 620	6 293
United States	\$'000	5 643	5 045	13 395	10 379	1 868	2 240	2 210
Other	\$'000	62 502	15 928	11 988	20 145	32 681	47 957	71 138
Other	\$'000	2 835	10 231	11 554	6 855	6 388	5 829	9 391
France	\$'000	340	1 694	673	232	221	450	1 775
Hong Kong	\$'000	0	1 418	2 124	2 409	279	285	67
Japan	\$'000	1 244	5 377	6 176	3 762	4 164	3 173	3 611
United States	\$'000	859	370	1 006	266	762	1 645	1 497
Other	\$'000	391	1 372	1 575	185	962	275	2 442
Total	\$'000	451 440	577 657	532 648	492 608	463 106	426 833	439 570

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.

114 Australian imports of lobster, by source

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity a								
Cuba	t	49	41	38	14	27	0	31
Malaysia	t	6	29	18	15	25	41	14
New Zealand	t	15	3	0	4	6	6	1
Papua New Guinea	t	48	55	71	73	73	89	79
Thailand	t	83	185	178	130	194	151	118
United States	t	53	165	36	30	82	0	17
Viet Nam	t	75	102	50	4	19	3	3
Other	t	58	75	30	51	57	155	207
Total	t	386	654	421	320	484	444	469
Value								
Cuba	\$'000	832	701	840	323	723	0	576
Malaysia	\$'000	44	315	254	211	303	437	134
New Zealand	\$'000	301	65	6	115	192	199	32
Papua New Guinea	\$'000	1 885	2 198	3 043	3 365	3 373	2 151	2 816
Thailand	\$'000	1 118	2 323	2 927	2 281	2 826	2 043	1 514
United States	\$'000	1 154	3 616	834	562	2 364	0	359
Viet Nam	\$'000	921	1 293	883	71	327	58	35
Other	\$'000	1 008	622	629	1 131	953	2 201	2 666
Total	\$'000	7 261	11 134	9 416	8 058	11 060	7 088	8 132

a Product weight.

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

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

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Exports								
Quantity a								
Fresh, chilled or frozen	t	1 543	1 570	1 505	2 007	1 701	2 119	2 032
China	t	19	19	27	51	30	20	296
Chinese Taipei	t	143	183	171	190	159	137	85
Hong Kong, China	t	827	836	732	1 210	1 129	1 551	1 229
Japan	t	502	494	531	507	351	377	394
United States	t	10	10	8	9	7	8	5
Other	t	42	28	36	40	24	26	23
Prepared or preserved	t	1 852	2 239	2 038	2 003	2 493	2 791	1 972
Chinese Taipei	t	606	666	660	396	207	428	227
Hong Kong, China	t	476	701	551	606	901	1 222	949
Japan	t	398	434	441	392	584	596	402
Singapore	t	257	363	252	300	326	344	311
United States	t	56	44	39	51	118	91	31
Other	t	59	30	97	258	356	110	52
Total	t	3 396	3 808	3 543	4 010	4 193	4 910	4 004
Value								
Fresh, chilled or frozen	\$'000	78 614	94 304	103 931	122 987	109 277	117 482	123 856
China	\$'000	750	885	2 398	5 613	3 141	1 532	16 033
Chinese Taipei	\$'000	5 513	8 816	9 781	9 368	8 536	6 088	4 096
Hong Kong, China	\$'000	43 525	51 391	53 000	70 354	71 567	87 086	76 529
Japan	\$'000	25 216	30 296	35 370	33 160	22 574	19 985	24 250
United States	\$'000	605	571	834	774	708	746	502
Other	\$'000	3 004	2 345	2 547	3 719	2 751	2 045	2 447
Prepared or preserved	\$'000	106 007	129 112	145 346	140 141	106 838	120 198	139 294
Chinese Taipei	\$'000	34 671	34 766	32 209	26 145	8 403	16 366	12 806
Hong Kong, China	\$'000	27 173	38 773	45 135	34 928	29 309	53 210	70 010
Japan	\$'000	22 708	29 283	36 888	30 278	29 629	25 309	27 462
Singapore	\$'000	14 589	21 105	20 018	24 637	20 088	16 744	22 475
United States	\$'000	3 456	3 051	3 958	4 300	3 231	3 391	2 381
Other	\$'000	3 409	2 134	7 138	19 854	16 177	5 178	4 160
Total	\$'000	184 621	223 415	249 277	263 128	216 115	237 680	263 150
Imports								
Quantity								
Live, fresh or chilled	t	61	0	0	0	0	0	0
New Zealand	t	60	0	0	0	0	0	0
Other	t	1	0	0	0	0	0	0
Frozen or preserved	t	8	15	6	14	10	10	6
Japan	t	1	3	0	0	0	3	0
New Zealand	t	0	1	0	1	0	0	0
Philippines	t	1	0	0	0	1	0	0
Other	t	6	12	6	13	8	8	6
Total	t	69	15	6	14	10	10	6
Value								
Live, fresh or chilled	\$'000	3 036	0	0	0	0	0	0
New Zealand	\$'000	2 986	0	0	0	0	0	0
Other	\$'000	50	0	0	0	0	0	0
Frozen or preserved	\$'000	229	829	125	139	540	475	149
Japan	\$'000	23	167	10	0	1	316	0
New Zealand	\$'000	1	79	0	26	6	0	3
Philippines	\$'000	16	0	0	0	50	0	0
Other	\$'000	189	582	115	113	482	160	146
Total	\$'000	3 266	829	125	139	540	475	149

a Product weight.

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

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

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Exports									
Quantity a									
Fresh, chilled or frozen	t	1 309	1 530	1 629	2 058	1 403	1 130	1 460	1 208
China	t	4	44	157	472	1	0	0	0
France	t	194	103	46	0	0	0	0	156
Hong Kong, China	t	813	933	1 017	1 181	971	769	1 096	727
Malaysia	t	46	85	90	101	103	72	54	33
Singapore	t	177	268	266	277	305	246	249	181
United States	t	16	15	0	0	0	2	1	1
Other	t	60	82	53	26	23	43	58	110
Other	t	37	40	26	87	85	35	4	0
Hong Kong, China	t	25	38	15	30	84	35	3	0
Other	t	12	1	11	57	1	0	1	0
Total	t	1 346	1 569	1 655	2 145	1 488	1 165	1 464	1 209
Value									
Fresh, chilled or frozen	\$'000	35 573	32 233	40 641	49 501	31 639	26 639	34 789	32 560
China	\$'000	134	1 008	1 032	3 871	11	5	0	0
France	\$'000	3 252	2 039	795	0	0	0	0	2 704
Hong Kong, China	\$'000	24 487	20 133	28 688	33 506	21 270	18 732	26 109	21 971
Malaysia	\$'000	1 148	1 604	2 261	2 994	2 471	1 611	1 287	949
Singapore	\$'000	5 116	5 424	6 608	8 317	7 389	5 392	5 715	5 232
United States	\$'000	234	290	0	0	0	63	74	38
Other	\$'000	1 201	1 735	1 257	814	498	836	1 603	1 666
Other	\$'000	818	1 002	1 371	3 904	2 794	2 048	126	6
Hong Kong, China	\$'000	668	932	1 009	2 694	2 782	2 036	93	5
Other	\$'000	150	70	362	1 210	12	11	34	0
Total	\$'000	36 391	33 236	42 012	53 405	34 433	28 686	34 916	32 566
Imports									
Quantity									
Fresh, chilled or frozen									
China	t	57	248	141	260	454	654	928	1 398
Indonesia	t	3	0	23	98	39	18	14	8
Japan	t	804	481	835	826	664	937	664	391
New Zealand	t	15	23	43	33	29	13	1	1
Peru	t	0	0	74	68	0	12	37	0
Thailand	t	419	329	366	396	360	338	408	310
Viet Nam	t	67	25	50	96	48	7	7	20
Other	t	81	51	135	78	24	46	44	169
Total	t	1 445	1 157	1 665	1 856	1 617	2 024	2 104	2 297
Value									
Fresh, chilled or frozen									
China	\$'000	561	3 037	2 034	4 179	6 137	6 618	8 823	15 250
Indonesia	\$'000	15	0	153	798	424	144	100	41
Japan	\$'000	12 020	7 043	14 698	13 609	9 058	12 033	7 557	6 027
New Zealand	\$'000	156	343	684	614	566	267	20	7
Peru	\$'000	0	0	970	785	0	140	316	1
Thailand	\$'000	5 361	4 271	5 592	6 274	4 863	4 114	4 547	3 490
Viet Nam	\$'000	527	167	308	603	564	64	49	144
Other	\$'000	1 730	1 353	1 489	1 526	605	860	614	2 497
Total	\$'000	20 370	16 215	25 928	28 388	22 219	24 241	22 027	27 458

a Product weight.

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

117 Australian exports of fish, by product type and destination ^a

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity ^b								
Live fish	t	na	na	na	na	na	na	na
Whole	t	17 213	18 300	19 634	24 187	24 096	20 434	20 406
China	t	593	2 222	1 239	1 761	2 101	1 369	1 734
Chinese Taipei	t	206	367	182	151	93	77	35
Germany	t	147	144	165	76	20	246	101
Japan	t	10 851	10 776	12 699	15 555	14 215	13 508	11 162
Saudi Arabia	t	165	106	60	135	120	119	134
Singapore	t	324	342	750	581	175	98	257
Thailand	t	1 415	986	1 241	1 308	1 087	826	2 077
United States	t	1 668	1 553	1 639	1 903	1 612	1 217	1 009
Other	t	1 844	1 805	1 659	2 716	4 672	2 974	3 896
Fillets	t	5 343	4 925	3 308	3 996	3 237	2 779	2 537
Japan	t	1 121	1 450	1 368	807	266	219	194
Thailand	t	573	238	13	0	1	127	140
United States	t	2 241	1 997	886	1 461	1 194	768	775
Other	t	1 408	1 241	1 040	1 728	1 776	1 666	1 427
Smoked, dried or salted	t	197	394	291	178	222	187	164
Canned	t	384	847	762	773	714	834	1 234
Other	t	3 034	3 117	4 106	2 263	1 783	1 736	1 591
Chinese Taipei	t	153	139	180	156	106	164	139
Japan	t	1 374	1 942	2 243	254	115	624	380
New Zealand	t	314	254	109	66	76	37	74
Other	t	1 192	782	1 574	1 786	1 486	911	998
Total	t	26 227	27 582	28 102	31 396	30 052	25 970	25 932
Value								
Live fish	\$'000	13 313	23 593	41 585	47 271	46 991	39 316	34 946
Whole	\$'000	174 110	246 315	308 807	383 530	376 677	311 085	209 590
China	\$'000	3 634	2 486	433	4 364	3 675	3 549	4 378
Chinese Taipei	\$'000	1 639	4 284	2 226	2 190	1 459	816	305
Germany	\$'000	1 436	1 352	1 254	726	166	1 320	600
Japan	\$'000	137 608	209 460	268 382	330 927	331 251	277 718	172 045
Saudi Arabia	\$'000	174	55	69	161	124	122	139
Singapore	\$'000	2 485	2 638	3 042	2 399	1 562	776	1 253
Thailand	\$'000	2 997	3 004	3 346	3 210	3 331	2 130	4 729
United States	\$'000	15 811	14 098	20 070	22 268	19 320	13 537	10 794
Other	\$'000	8 328	8 937	9 985	17 286	15 790	11 117	15 345
Fillets	\$'000	49 099	41 635	25 334	27 385	24 455	17 007	18 612
Japan	\$'000	9 702	11 134	9 074	3 420	1 689	1 222	1 318
Thailand	\$'000	1 194	615	52	2	10	239	268
United States	\$'000	30 424	24 848	11 373	15 763	15 411	8 541	11 306
Other	\$'000	7 779	5 038	4 836	8 199	7 346	7 005	5 720
Smoked, dried or salted	\$'000	6 869	14 019	15 703	15 958	18 608	19 471	20 047
Canned	\$'000	2 731	4 666	4 482	5 165	5 031	6 354	6 587
Other	\$'000	28 567	62 854	82 443	22 517	13 439	16 748	14 627
Chinese Taipei	\$'000	2 702	3 241	3 244	3 583	2 694	3 496	4 167
Japan	\$'000	18 254	52 538	67 897	8 270	2 950	6 701	4 971
New Zealand	\$'000	1 501	414	300	268	275	308	372
Other	\$'000	6 109	6 662	11 001	10 396	7 519	6 243	5 117
Total	\$'000	274 717	393 083	478 353	501 826	485 201	409 980	304 409

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

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

118 Australian imports of fish, by product type and source

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity a								
Live	t	na	na	na	na	na	na	na
Fresh, chilled or frozen	t	57 433	54 893	54 249	57 960	60 090	64 475	59 847
Whole	t	21 280	16 274	16 980	20 842	23 408	24 846	21 368
New Zealand	t	8 088	8 697	9 810	9 909	11 586	13 429	9 563
Fillets	t	36 152	38 619	37 268	37 118	36 682	39 630	38 479
Chile	t	4 228	4 505	3 358	3 492	1 984	1 880	1 192
New Zealand	t	14 172	12 010	13 004	12 967	12 325	10 819	8 444
South Africa	t	5 848	5 868	5 793	6 139	5 256	5 144	3 989
Uganda	t	1 227	3 844	3 530	1 826	1 674	1 691	803
Smoked, dried or salted	t	4 081	4 706	2 941	2 151	2 801	2 811	2 957
South Africa	t	1 673	1 384	1 052	453	1 039	668	823
Denmark	t	476	357	303	534	581	895	936
Thailand	t	873	1 744	535	55	59	62	29
Canned	t	30 022	33 829	41 609	36 944	47 398	58 804	53 443
Canada	t	3 859	3 398	3 451	3 708	3 534	3 833	3 784
Thailand	t	15 952	18 862	24 676	22 771	30 142	44 266	38 872
United States	t	5 144	5 564	7 367	4 425	5 385	5 055	5 037
Other fish preparations	t	6 215	8 719	9 841	10 544	13 453	12 474	14 508
Japan	t	342	271	237	232	253	280	348
New Zealand	t	2 363	3 400	4 055	4 097	5 001	3 583	3 598
Thailand	t	2 117	2 323	2 416	2 825	3 915	3 746	5 462
Total	t	97 751	102 147	108 639	107 599	123 742	138 564	130 756
Value								
Live	\$'000	0	54	22	35	6	19	5
Fresh, chilled or frozen	\$'000	215 714	235 880	246 850	278 527	283 171	273 671	262 302
Whole	\$'000	57 585	57 751	59 823	68 935	77 118	78 122	72 742
New Zealand	\$'000	30 888	35 519	37 009	37 854	44 080	47 703	43 948
Fillets	\$'000	158 130	178 130	187 027	209 592	206 054	195 548	189 560
Chile	\$'000	13 104	14 837	12 380	12 524	6 554	4 925	3 330
New Zealand	\$'000	62 486	65 330	70 307	75 632	73 970	61 017	51 018
South Africa	\$'000	25 077	26 156	28 393	32 013	29 073	27 461	20 983
Uganda	\$'000	5 156	14 416	12 611	12 332	10 931	7 337	3 488
Smoked, dried or salted	\$'000	31 003	28 496	23 164	24 792	26 263	30 459	34 053
South Africa	\$'000	6 563	5 571	4 728	2 495	4 847	3 238	4 227
Denmark	\$'000	8 351	5 827	4 915	9 564	9 828	14 746	16 769
Thailand	\$'000	3 712	5 489	1 524	474	404	501	196
Canned	\$'000	168 268	161 421	193 656	182 209	218 762	186 148	188 745
Canada	\$'000	26 392	22 434	25 207	20 797	23 358	19 911	19 135
Thailand	\$'000	73 130	70 228	86 888	103 096	118 569	108 463	111 617
United States	\$'000	33 445	31 502	38 248	21 174	27 755	22 146	21 322
Other fish preparations	\$'000	27 337	37 424	45 514	51 138	62 352	54 510	62 181
Japan	\$'000	2 674	2 810	2 398	2 580	2 359	2 331	3 002
New Zealand	\$'000	8 142	13 077	15 702	17 519	22 555	17 690	17 345
Thailand	\$'000	8 206	9 333	10 254	11 548	14 689	11 957	15 814
Total	\$'000	442 322	463 275	509 207	536 701	590 553	544 806	547 285

a Product weight. na Not available.

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

119 Australian exports and imports of oysters, by country

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Exports									
Quantity									
China	t	1	0	7	7	5	7	0	0
Chinese Taipei	t	0	0	2	7	5	2	0	1
Hong Kong, China	t	22	5	60	166	85	55	81	103
Japan	t	2	12	21	13	22	34	26	58
Singapore	t	7	52	60	40	77	60	6	5
Other	t	9	4	1	12	24	6	5	7
Total	t	42	73	152	246	219	163	119	174
Value									
China	\$'000	26	2	68	46	34	90	0	0
Chinese Taipei	\$'000	9	1	19	64	45	88	3	8
Hong Kong, China	\$'000	293	77	1 885	4 903	1 596	541	692	870
Japan	\$'000	20	105	133	201	265	542	326	719
Singapore	\$'000	55	388	757	744	1 000	428	106	82
Other	\$'000	112	39	21	325	561	52	55	66
Total	\$'000	515	613	2 884	6 283	3 501	1 742	1 182	1 746
Imports									
Quantity									
China	t	1	2	2	2	2	47	4	8
Hong Kong, China	t	1	3	1	2	2	3	1	1
Japan	t	12	17	32	15	18	30	41	11
Korea, Rep. Of	t	1	2	12	11	18	28	28	15
New Zealand	t	509	597	612	565	580	685	674	872
Other	t	1	1	1	0	0	0	1	3
Total	t	527	622	660	596	621	792	749	910
Value									
China	\$'000	49	53	61	82	86	295	105	72
Hong Kong, China	\$'000	40	69	57	90	74	90	31	32
Japan	\$'000	150	210	403	219	237	364	440	113
Korea, Rep. Of	\$'000	24	39	121	129	197	243	221	106
New Zealand	\$'000	3 648	4 540	4 549	3 872	4 134	5 933	5 981	6 631
Other	\$'000	34	27	22	21	13	0	19	21
Total	\$'000	3 944	4 938	5 213	4 414	4 740	6 926	6 797	6 975

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

120 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	
	1999-00 '000	2000-01 '000	2001-02 \$m	2002-03 \$m	2001-02 \$m	2002-03 \$m	2001-02 \$m	2002-03 \$m
Meat								
Meat processing	28	28	1 036	1 211	10 251	9 505	1 584	2 005
Poultry processing	13	16	556	614	3 315	3 604	941	957
Bacon, ham and smallgoods	7	8	294	313	1 964	2 060	451	510
Total	47	53	1 886	2 138	15 530	15 168	2 976	3 473
Dairy								
Milk and cream processing	6	5	310	260	2 724	2 803	696	506
Ice cream	3	2	59	69	478	520	110	133
Other dairy products	9	12	480	501	5 901	5 586	1 056	958
Total	17	19	849	831	9 103	8 909	1 862	1 598
Fruit and vegetables								
	11	16	568	581	4 001	4 439	1 063	1 072
Oil and fat								
	1	4	145	165	1 544	1 833	326	393
Flour mill and cereal food								
Flour mill products	2	3	125	131	1 608	1 775	334	339
Cereal food and baking mixes	6	7	239	274	2 078	2 319	543	600
Total	8	10	364	405	3 685	4 094	876	939
Bakery products								
Bread	10	12	452	449	1 712	1 814	718	693
Cakes and pastry products	10	9	233	239	956	1 028	346	366
Biscuits	5	7	222	237	1 050	1 045	409	431
Total	25	28	908	924	3 719	3 887	1 473	1 491
Other food								
Sugar	6	6	241	246	2 357	2 399	468	476
Confectionery	6	6	278	315	1 649	1 862	638	741
Seafood	4	4	121	133	1 595	1 515	218	225
Prepared animal and bird feed	5	4	228	240	2 666	3 083	493	495
Food nec	14	15	860	1 023	6 743	7 192	1 832	1 942
Total	35	35	1 727	1 958	15 010	16 052	3 648	3 879
Beverage and malt								
Soft drink, cordial and syrup	6	6	378	351	3 330	3 194	968	1 018
Beer and malt	3	4	284	292	3 165	3 420	1 287	1 310
Wine	9	12	661	637	5 079	4 866	1 717	1 397
Spirits	0	0	0	0	0	0	0	0
Total	18	22	1 323	1 279	11 574	11 479	3 971	3 725
Total food and beverages	163	187	7 770	8 281	64 165	65 861	16 195	16 568

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

Sources: ABS, *Manufacturing Industry*, cat. no. 8221.0, Canberra; ABS unpublished data, Canberra.

121 Value of Australian food exports, by level of transformation

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	532	528	625	753	938	993	598	555
Fish or shellfish	470	517	639	771	867	772	676	584
Horticulture								
Vegetables	209	218	191	201	218	199	161	155
Fruit and nuts	359	372	396	476	561	531	406	461
Total	568	590	587	677	779	730	568	616
Grains a	4 267	4 193	4 208	5 294	5 854	3 873	4 654	4 655
Oilseeds	364	683	798	721	752	400	549	492
Food nec	37	88	54	81	59	72	45	44
Substantially transformed								
Meat								
Meat processing	3 714	3 986	4 440	5 770	6 215	5 625	5 722	6 901
Poultry processing	18	23	21	26	26	22	20	20
Bacon, ham and smallgoods	64	61	86	65	80	82	84	106
Total	3 795	4 070	4 548	5 862	6 320	5 729	5 826	7 028
Seafood	704	704	899	943	792	711	640	652
Dairy								
Milk and cream processing	897	1 056	1 126	1 550	1 650	1 176	1 073	1 107
Ice cream	47	41	36	34	32	29	35	41
Other dairy products	1 008	1 193	1 305	1 486	1 592	1 285	1 174	1 334
Total	1 952	2 291	2 467	3 070	3 275	2 490	2 282	2 482
Fruit and vegetables	436	480	522	566	656	528	508	502
Oil and fat	167	170	131	129	147	144	146	150
Flour mill and cereal food								
Flour mill products	174	204	209	207	233	213	202	222
Cereal food and baking mixes	528	513	529	544	400	257	217	213
Total	702	717	738	751	632	471	419	435
Bakery products								
Bread, cakes and pastry products	11	11	19	15	8	3	4	5
Biscuits	83	79	69	73	92	96	105	113
Total	94	89	88	88	99	99	109	117
Other food								
Sugar a	1 742	1 377	1 111	1 236	1 446	1 238	1 000	1 403
Confectionery	162	176	230	261	287	291	267	250
Food nec	788	734	900	1 087	1 148	876	931	935
Total	2 692	2 288	2 241	2 585	2 881	2 405	2 197	2 588
Beverages and malt								
Soft drink, cordial and syrup	28	23	26	45	30	47	37	35
Beer and malt	216	207	213	266	317	324	282	241
Wine	874	1 068	1 374	1 753	2 105	2 424	2 494	2 716
Spirit	31	38	55	73	81	72	59	75
Total	1 150	1 336	1 667	2 136	2 533	2 867	2 872	3 066
Total food and beverages								
Minimally transformed	6 238	6 601	6 911	8 297	9 249	6 840	7 090	6 946
Substantially transformed	11 460	11 899	13 027	15 826	17 000	15 083	14 657	16 688
Elaborately transformed	232	247	273	302	336	360	342	332
Total	17 929	18 747	20 211	24 425	26 585	22 284	22 089	23 966

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

122 Value of Australian food exports, to selected regions

	Asia		European Union		NAFTA	
	2003-04 \$m	2004-05 \$m	2003-04 \$m	2004-05 \$m	2003-04 \$m	2004-05 \$m
<i>Minimally transformed</i>						
Live animals except fish	287	302	1	0	3	3
Fish or shellfish	648	554	9	12	16	14
Horticulture						
Vegetables	103	98	20	16	0	0
Fruit and nuts	256	280	21	31	53	56
Total	359	378	42	47	54	57
Grains a	2 335	3 068	124	121	0	1
Oilseeds	474	458	59	19	8	7
Food nec	26	20	5	8	2	4
<i>Substantially transformed</i>						
Meat						
Meat processing	3 137	4 132	228	239	1 856	1 968
Poultry processing	7	8	0	0	0	0
Bacon, ham and smallgoods	68	85	0	2	0	1
Total	3 212	4 225	228	241	1 856	1 969
Seafood						
	447	450	57	54	113	117
Dairy						
Milk and cream processing	830	816	10	23	34	31
Ice cream	24	30	0	0	0	0
Other dairy products	675	803	98	109	157	153
Total	1 529	1 649	108	132	191	184
Fruit and vegetables						
	210	199	87	89	52	56
Oil and fat						
	90	88	3	4	1	5
Flour mill and cereal food						
Flour mill products	117	139	1	1	45	41
Cereal food and baking mixes	53	56	4	5	3	4
Total	170	195	5	6	48	46
Bakery products						
Bread, cakes and pastry products	0	0	0	0	0	0
Biscuits	21	15	15	9	6	6
Total	21	16	15	9	6	6
Other food						
Sugar a	889	1 097	3	4	170	168
Confectionery	155	130	5	8	9	11
Food nec	508	566	33	36	43	26
Total	1 552	1 793	41	48	222	205
Beverages and malt						
Soft drink, cordial and syrup	5	4	2	1	0	0
Beer and malt	225	214	0	0	0	0
Wine	140	172	1 134	1 289	1 071	1 107
Spirit	31	34	3	2	1	1
Total	401	424	1 139	1 292	1 073	1 109
Total food and beverage						
Minimally transformed	4 130	4 779	239	207	83	85
Substantially transformed	7 497	8 930	1 663	1 859	3 547	3 682
Elaborately transformed	134	110	20	17	15	14
Total	11 761	13 819	1 923	2 082	3 645	3 782

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

123 Value of Australian food imports, by level of transformation

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed								
Live animals except fish	13	1	1	0	1	0	0	1
Fish or shellfish	30	31	35	37	37	41	46	46
Horticulture								
Vegetables	19	24	27	26	24	27	34	32
Fruit and nuts	90	94	99	110	117	115	140	159
Total	109	118	126	136	141	142	173	191
Grains								
Grains	3	1	1	0	0	65	1	1
Oilseeds	40	29	23	24	21	61	50	25
Food nec	186	172	155	114	59	72	45	44
Substantially transformed								
Meat								
Meat processing	42	51	133	105	206	172	224	345
Poultry processing	0	0	0	0	0	0	0	0
Bacon, ham and smallgoods	33	28	29	31	36	39	40	41
Total	75	79	161	136	242	211	264	387
Seafood								
Seafood	666	720	751	843	865	923	868	928
Dairy								
Milk and cream processing	25	33	29	37	29	34	35	45
Ice cream	15	33	17	21	15	22	22	29
Other dairy products	188	207	230	261	277	275	272	310
Total	228	273	276	319	321	331	330	384
Fruit and vegetables								
Fruit and vegetables	620	715	719	753	812	899	910	998
Oil and fat								
Oil and fat	253	288	271	275	280	357	345	339
Flour mill and cereal food								
Flour mill products	55	48	79	77	22	41	59	73
Cereal food and baking mixes	141	149	139	196	226	236	260	285
Total	196	197	219	273	248	277	319	358
Bakery products								
Bread, cakes and pastry products	63	76	81	92	57	29	39	47
Biscuits	58	62	80	82	106	152	160	177
Total	120	138	161	174	163	180	199	224
Other food								
Sugar	7	9	11	12	16	20	15	18
Confectionery	215	208	213	224	222	245	261	307
Food nec	618	729	757	858	923	1 033	961	1 036
Total	841	945	981	1 094	1 160	1 298	1 237	1 361
Beverages and malt								
Soft drink, cordial and syrup	286	276	330	405	421	461	502	537
Beer and malt	32	44	42	52	66	78	91	99
Wine	94	103	114	92	116	139	158	200
Spirit	216	232	252	330	351	327	345	382
Total	627	654	737	880	954	1 005	1 096	1 218
Total food and beverages								
Minimally transformed	380	352	342	312	260	382	315	308
Substantially transformed	3 507	3 893	4 140	4 604	4 874	5 278	5 351	5 968
Elaborately transformed	117	117	136	143	172	204	217	228
Total	4 005	4 361	4 618	5 059	5 306	5 863	5 883	6 503

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

124 Value of Australian food imports from selected regions

	Asia		European Union		NAFTA	
	2003-04	2004-05	2003-04	2004-05	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m
Minimally transformed						
Live animals except fish	0	0	0	0	0	0
Fish or shellfish	2	1	0	1	0	0
Horticulture						
Vegetables	11	12	1	1	6	3
Fruit and nuts	16	20	9	7	46	60
Total	27	32	10	8	52	64
Grains						
Oilseeds	0	0	0	0	0	0
Food nec	18	17	0	0	19	5
Food nec	38	43	3	4	1	2
Substantially transformed						
Meat						
Meat processing	0	0	115	121	95	194
Poultry processing	0	0	0	0	0	0
Bacon, ham and smallgoods	1	1	6	7	12	14
Total	1	1	121	128	107	207
Seafood						
Seafood	532	602	40	45	47	52
Dairy						
Milk and cream processing	3	3	1	1	0	1
Ice cream	6	9	3	6	2	2
Other dairy products	2	4	75	81	4	5
Total	11	16	79	89	7	8
Fruit and vegetables						
Fruit and vegetables	241	294	195	200	118	106
Oil and fat						
Oil and fat	131	129	134	146	16	3
Flour mill and cereal food						
Flour mill products	18	18	6	10	26	35
Cereal food and baking mix	130	167	61	67	25	7
Total	147	185	67	76	51	42
Bakery products						
Bread, cakes and pastry products	10	12	7	9	2	2
Biscuits	48	53	60	55	11	14
Total	58	66	67	64	12	17
Other food						
Sugar	7	8	2	3	2	2
Confectionery	46	57	117	134	14	19
Food nec	374	393	202	236	111	122
Total	427	457	320	373	126	142
Beverages and malt						
Soft drink, cordial and syrup	16	19	376	393	13	12
Beer and malt	4	6	60	58	22	25
Wine	1	0	98	112	4	2
Spirit	4	3	183	207	123	142
Total	24	29	717	771	162	182
Total food and beverages						
Minimally transformed	86	93	14	13	73	71
Substantially transformed	1 524	1 724	1 657	1 822	632	743
Elaborately transformed	50	55	84	70	14	17
Total	1 659	1 872	1 754	1 906	719	831

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

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

	1999 US\$m	2000 US\$m	2001 US\$m	2002 US\$m	2003 US\$m	Share b %
Minimally transformed						
Live animals except fish	9 307	9 356	8 778	9 319	9 246	2.0
Fish or shellfish						
Fish, live or fresh	24 918	24 982	26 131	26 828	29 381	5.8
Fish, dried, salted or smoked	2 740	2 792	2 814	2 626	2 869	0.6
Shellfish	17 390	19 065	18 099	18 162	19 990	4.1
Horticulture						
Vegetables	22 138	21 276	23 111	24 235	27 746	5.2
Fruit and nuts	32 852	31 023	31 736	34 204	40 693	7.5
Cocoa	6 035	4 657	4 919	6 767	9 599	1.4
Eggs, albumin	1 396	1 376	1 448	1 529	1 869	0.3
Grains and oilseeds						
Barley	2 526	2 924	2 751	2 627	2 833	0.6
Maize	9 332	9 572	9 497	10 362	11 863	2.2
Oilseeds, not soft oil	841	778	801	873	1 007	0.2
Oilseeds, soft oil	13 690	14 896	15 939	15 917	21 450	3.6
Rice	8 158	6 369	5 831	6 213	7 129	1.5
Wheat or meslin	15 200	14 924	15 252	16 274	16 467	3.4
Other cereal grains, nec	1 543	1 629	1 607	1 643	1 716	0.4
Substantially transformed						
Meat						
Beef, fresh, chilled or frozen	14 158	14 178	12 548	13 760	15 954	3.1
Meat, fresh, chilled or frozen	22 430	23 414	25 737	25 648	29 065	5.6
Meat or offal, preserved	1 588	1 743	2 252	2 185	2 535	0.5
Meat or offal, preserved, nec	5 355	5 375	5 819	6 188	7 236	1.3
Dairy						
Milk products, excluding butter and cheese	13 899	13 908	14 577	14 061	16 495	3.2
Butter and cheese	2 968	2 747	2 849	2 752	3 654	0.7
Cheese and curd	10 408	9 510	10 376	10 991	13 145	2.4
Fish or shellfish	9 484	9 712	9 805	10 474	11 474	2.2
Cereal products						
Flour or meal from wheat or meslin	1 230	1 245	1 187	1 204	1 297	0.3
Cereal flour or meal, nec	446	412	475	495	606	0.1
Cereal etc flour or starch	13 900	13 428	14 600	16 332	19 545	3.4
Horticulture						
Vegetables, prepared or preserved	10 655	9 794	10 025	10 749	12 429	2.4
Fruit, prepared or preserved	6 620	6 271	6 242	6 703	8 154	1.5
Fruit or vegetable juices	7 005	6 665	6 149	6 788	8 042	1.5
Sugar and confectionery						
Sugar, molasses and honey	12 649	10 883	13 330	12 837	13 901	2.8
Sugar confectionery	3 974	4 018	4 082	4 409	5 244	1.0
Chocolate and cocoa preparations	6 875	6 690	7 245	7 904	9 617	1.7

Continued

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

	1999	2000	2001	2002	2003	Share ^b
	US\$m	US\$m	US\$m	US\$m	US\$m	%
Animal and vegetable oil						
Margarine and shortening	1 356	1 326	1 293	1 407	1 642	0.3
Animal oil or fat	1 907	1 667	1 664	1 864	2 196	0.4
Vegetable oil or fat, fixed, soft	11 123	8 698	8 780	10 653	13 154	2.3
Vegetable oils, fixed, not soft	8 303	6 959	6 471	8 608	11 411	1.8
Animal or vegetable oils, processed	3 187	2 965	2 927	3 250	3 989	0.7
Other food						
Coffee and coffee substitutes	13 527	12 334	9 549	9 024	10 755	2.4
Tea and mate	3 040	3 018	3 009	3 018	3 161	0.7
Spices	2 745	2 839	2 704	2 639	2 992	0.6
Edible products, nec	18 401	17 856	19 497	21 306	25 223	4.5
Beverage						
Beverages, nonalcoholic, nec	4 896	4 984	5 578	6 344	7 498	1.3
Alcoholic beverages	29 974	29 058	30 317	32 761	37 987	7.1
Animal feed ^c	20 373	21 974	23 402	24 510	27 227	5.2
Total	430 542	419 292	431 198	456 443	529 484	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 1999–2003. ^c Excludes unmilled cereal.

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

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

	1999	2000	2001	2002	2003	Share ^b
	US\$m	US\$m	US\$m	US\$m	US\$m	%
Meat						
Australia	2 685	2 913	3 281	3 240	3 455	6.7
Denmark	3 345	3 335	3 741	3 568	3 961	7.7
France	3 664	3 421	2 926	3 026	3 675	7.2
Netherlands	4 519	4 294	3 933	4 116	4 911	9.4
United States	6 340	7 305	7 239	6 354	7 261	14.9
Other	21 985	22 243	24 606	25 974	30 493	54.1
Total	42 538	43 511	45 727	46 279	53 756	100.0
Dairy						
Australia	1 420	1 573	1 568	1 569	1 349	5.2
France	4 011	3 803	3 709	3 878	4 663	13.9
Germany	4 519	4 093	4 507	3 886	5 327	15.5
Netherlands	3 411	3 118	3 356	3 311	4 358	12.2
New Zealand	2 009	2 125	2 679	2 418	2 769	8.3
Other	11 799	11 883	12 912	12 616	15 313	44.8
Total	27 168	26 595	28 731	27 678	33 780	100.0
Seafood						
Australia	80	94	63	45	74	0.7
China	1 022	1 391	1 428	1 628	1 923	15.4
Denmark	436	397	445	452	533	4.7
Korea, Rep. of	311	312	262	232	203	2.7
Thailand	2 016	2 058	2 012	2 012	2 145	21.3
Other	4 997	4 864	5 109	5 394	6 202	55.2
Total	8 862	9 116	9 319	9 764	11 080	100.0
Horticulture						
Australia	148	138	124	140	177	0.6
China	1 501	1 685	1 869	2 155	2 684	8.2
Italy	1 775	1 552	1 615	1 863	2 143	7.5
Netherlands	2 193	1 885	1 859	2 053	2 453	8.7
United States	2 448	2 378	2 272	2 258	2 252	9.7
Other	15 298	14 207	14 276	15 645	18 907	65.3
Total	23 363	21 845	22 016	24 114	28 615	100.0
Beverages ^c						
Australia	848	991	1 089	1 370	1 646	3.1
France	9 014	8 104	7 600	8 562	10 380	23.0
Germany	1 829	1 512	1 853	2 229	2 824	5.4
Italy	3 249	3 037	3 148	3 669	4 157	9.1
United Kingdom	4 712	4 618	4 661	4 974	5 721	13.0
Other	15 366	15 613	16 856	18 448	21 994	46.4
Total	35 016	33 875	35 207	39 252	46 722	100.0
Sugar and confectionery						
Australia	963	874	910	882	910	3.7
Belgium–Luxembourg	1 665	1 737	1 711	1 859	2 290	7.5
Brazil	2 062	1 359	2 485	2 302	2 442	8.6
France	2 225	2 066	1 905	2 140	2 373	8.6
Germany	2 176	1 874	2 214	2 298	2 785	9.2
Other	13 558	13 897	15 542	15 998	18 418	62.5
Total	22 650	21 807	24 766	25 479	29 217	100.0

Continued

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

	1999	2000	2001	2002	2003	Share ^b
	US\$m	US\$m	US\$m	US\$m	US\$m	%
Animal and vegetable oil						
Argentina	2 347	1 691	1 642	2 096	2 842	8.5
Australia	254	220	203	215	260	0.9
Malaysia	4 911	3 515	3 355	4 837	6 515	18.6
Netherlands	1 719	1 224	1 270	1 632	2 005	6.3
United States	2 012	1 503	1 455	1 978	2 067	7.2
Other	14 165	12 272	12 068	15 413	18 905	58.4
Total	25 408	20 425	19 994	26 170	32 594	100.0
Animal feed ^d						
Argentina	2 049	2 433	2 627	2 790	3 500	12.3
Australia	403	565	483	522	540	2.3
Brazil	1 587	1 716	2 167	2 300	2 713	9.7
Netherlands	1 670	1 670	1 617	1 886	2 144	8.3
United States	3 526	3 975	4 414	4 068	4 109	18.5
Other	9 508	9 680	10 403	11 038	12 491	48.9
Total	18 742	20 039	21 711	22 604	25 498	100.0
Cereal products						
Australia	280	275	289	319	364	1.7
Belgium–Luxembourg	1 447	1 308	1 499	1 651	2 047	8.9
France	1 672	1 540	1 534	1 736	2 177	9.6
Germany	1 570	1 503	1 668	1 914	2 431	10.1
Italy	1 852	1 721	1 854	2 034	2 317	10.9
Other	9 369	9 346	9 937	11 149	13 010	58.8
Total	16 190	15 691	16 780	18 803	22 347	100.0
Other processed food						
Australia	202	232	211	228	300	0.7
Brazil	2 778	2 258	1 826	1 681	1 836	5.9
France	1 544	1 419	1 450	1 591	1 959	4.5
Netherlands	1 618	1 638	1 703	1 969	2 488	5.3
United States	3 044	3 204	3 398	3 323	3 706	9.5
Other	26 279	25 548	24 285	25 132	29 276	74.1
Total	35 465	34 298	32 872	33 924	39 564	100.0
All processed food						
Australia	7 281	7 874	8 223	8 530	9 075	3.0
France	25 242	23 269	21 840	23 962	28 954	9.1
Germany	19 612	17 390	20 113	21 132	25 923	7.7
Netherlands	18 858	17 365	17 673	19 504	23 830	7.2
United States	22 028	23 184	24 027	23 123	24 974	8.6
Other	162 533	158 174	165 306	177 952	210 918	64.4
Total	255 554	247 256	257 182	274 203	323 673	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 1999–2003. ^c Alcoholic and nonalcoholic. ^d Excludes unmilled cereal.

Sources: International Trade Centre UNCTAD/WTO; ABARE.

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

	1999	2000	2001	2002	2003	Share ^b
	US\$m	US\$m	US\$m	US\$m	US\$m	%
Meat						
Australia	64	99	90	117	153	0.2
Germany	4 253	3 589	4 059	3 918	4 356	8.5
Italy	3 208	3 083	3 001	3 077	3 689	6.8
Japan	7 813	8 551	8 409	7 776	8 655	17.4
United Kingdom	3 474	3 590	3 987	4 268	5 477	8.8
Other	24 719	25 799	26 811	28 625	32 460	58.4
Total	43 531	44 710	46 355	47 781	54 789	100.0
Dairy						
Australia	171	166	165	157	200	0.6
Belgium–Luxembourg	2 064	1 972	2 048	2 101	2 686	7.6
Germany	3 351	2 551	2 958	3 214	4 093	11.4
Italy	2 657	2 409	2 455	2 396	2 950	9.0
Netherlands	1 982	1 846	1 694	1 811	2 257	6.7
Other	17 051	17 223	18 482	18 125	21 108	64.6
Total	27 275	26 166	27 802	27 804	33 294	100.0
Seafood						
Australia	173	172	171	179	215	1.8
France	614	609	613	716	810	6.6
Japan	2 105	2 499	2 239	2 284	2 170	22.2
United Kingdom	804	714	780	792	842	7.7
United States	1 690	1 821	1 951	2 157	2 362	19.6
Other	4 098	3 898	4 051	4 347	5 076	42.1
Total	9 484	9 712	9 805	10 474	11 474	100.0
Horticulture						
Australia	250	249	217	241	322	1.0
France	2 039	1 904	1 721	1 972	2 450	8.2
Germany	3 198	2 704	2 915	3 100	3 858	12.9
Japan	2 571	2 558	2 499	2 355	2 463	10.2
United States	3 201	3 201	3 145	3 374	3 907	13.8
Other	13 021	12 113	11 919	13 200	15 625	53.9
Total	24 280	22 729	22 415	24 241	28 625	100.0
Beverages ^c						
Australia	319	377	371	368	458	1.0
Germany	3 589	2 955	3 333	3 557	3 770	9.1
Japan	2 069	1 995	1 935	1 893	2 075	5.3
United Kingdom	4 478	4 076	4 211	4 603	5 424	12.0
United States	7 816	8 567	8 964	9 959	11 244	24.6
Other	16 598	16 073	17 081	18 724	22 513	48.0
Total	34 870	34 042	35 895	39 105	45 485	100.0
Sugar and confectionery						
Australia	154	157	139	154	214	0.7
France	1 484	1 377	1 302	1 513	1 849	6.1
Germany	1 723	1 429	1 671	1 760	2 336	7.2
United Kingdom	1 795	1 651	1 698	1 823	2 132	7.4
United States	2 332	2 378	2 534	2 894	3 400	10.9
Other	16 009	14 599	17 312	17 005	18 831	67.7
Total	23 498	21 591	24 656	25 150	28 762	100.0

Continued

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

	1999	2000	2001	2002	2003	Share ^b
	US\$m	US\$m	US\$m	US\$m	US\$m	%
Animal and vegetable oil						
Australia	189	181	152	193	246	0.8
Germany	1 281	1 122	1 121	1 316	1 664	5.1
Italy	1 524	1 254	1 339	1 665	2 024	6.2
United Kingdom	998	889	866	922	1 144	3.8
United States	1 500	1 508	1 297	1 458	1 707	5.9
Other	20 384	16 661	16 358	20 227	25 608	78.3
Total	25 876	21 615	21 134	25 782	32 393	100.0
Animal feed ^d						
Australia	93	97	122	165	202	0.6
China	619	908	639	772	659	3.1
France	1 266	1 462	1 484	1 521	1 800	6.4
Germany	1 422	1 479	1 679	1 705	1 846	6.9
Japan	1 944	2 036	2 114	2 155	2 309	9.0
Other	15 030	15 993	17 364	18 192	20 410	74.0
Total	20 373	21 974	23 402	24 510	27 227	100.0
Cereal products						
Australia	138	163	130	137	187	0.9
France	1 373	1 277	1 266	1 432	1 725	8.2
Germany	1 359	1 060	1 310	1 468	1 693	8.0
United Kingdom	1 057	1 007	1 092	1 229	1 515	6.8
United States	1 710	1 855	2 004	2 286	2 634	12.1
Other	9 939	9 722	10 461	11 479	13 694	64.0
Total	15 576	15 086	16 263	18 032	21 448	100.0
Other processed food						
Australia	670	713	647	713	895	1.9
France	1 997	1 798	1 628	1 784	2 260	5.1
Germany	3 806	3 117	2 901	2 796	3 419	8.6
Japan	2 450	2 451	2 308	2 234	2 391	6.3
United States	4 964	4 871	4 059	4 401	4 980	12.5
Other	23 824	23 097	23 214	24 058	28 185	65.6
Total	37 712	36 047	34 758	35 986	42 130	100.0
All processed food						
Australia	2 221	2 374	2 203	2 426	3 092	0.9
Germany	24 531	20 489	22 479	23 399	27 694	8.6
Japan	21 772	22 884	22 353	21 567	23 217	8.1
United Kingdom	19 645	18 287	18 889	20 037	24 919	7.4
United States	28 322	29 911	30 125	32 784	36 781	11.4
Other	165 985	159 727	166 435	178 651	209 923	63.7
Total	262 475	253 672	262 485	278 864	325 627	100.0

^a Based on over 100 reporting countries representing more than 90 per cent of world trade. ^b Average, 1999–2003. ^c Alcoholic and nonalcoholic. ^d Excludes unmilled cereal.

Sources: International Trade Centre, UNCTAD/WTO.

128 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	9 504	11 816	21 320	8 124	9 896	19 549	1.03
1999-00	11 774	12 484	24 258	9 585	12 355	21 488	1.12
2000-01	11 510	12 700	24 211	8 489	13 017	19 682	1.01
2001-02	10 557	13 985	24 542	8 276	13 807	19 011	0.97
2002-03	11 714	15 003	26 717	9 048	14 869	20 895	1.05
2003-04	10 984	14 701	25 684	9 921	14 918	20 687	1.03
2004-05 ^s	11 400	13 900	25 300	10 361	15 133	20 528	na

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

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

129 Land areas by vegetation cover ^a

	NSW '000 ha	Vic. '000 ha	Qld '000 ha	WA '000 ha	SA '000 ha	Tas. '000 ha	NT '000 ha	ACT '000 ha	Aust. '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	341	383	215	370	164	226	12	5	1 716
(% of land area)	0.43	1.68	0.12	0.15	0.17	3.33	0.01	2.26	0.22
Unknown	3 632		6 275						9 907
(% of land area)	4.53		3.63						1.29
Total forest									
vegetation cover	26 999	8 318	55 949	25 734	11 029	3 395	32 848	123	164 346
(% of land area)	33.68	36.55	32.39	10.19	11.21	50.08	24.40	51.21	21.39
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 December 2004.

Source: National Forest Inventory 2003, National Plantation Inventory 2005, Bureau of Rural Sciences, Canberra.

130 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
		Hardwood b index	Softwood b index				
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

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.

131 Value of turnover in forest products industries ^a

	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ANZSIC group and class							
Wood and wood products							
Log sawmilling	803	771	729	881	na	1 632	1 704
Resawn and dressed timber	1 036	1 215	1 177	1 287	na	1 374	1 768
Veneers, plywood and fabricated wood manufacturing	1 185	1 081	1 143	1 239	na	1 522	1 677
Wooden structural fittings and joinery nec	1 894	2 184	2 512	3 241	na	2 670	3 053
Hardwood woodchips	465	507	448	517	na	536	664
Wood products nec	604	560	589	682	na	1 023	1 106
Total	5 986	6 319	6 599	7 846	na	8 757	9 972
Paper and paper products							
Pulp, paper and paperboard	2 020	1 961	2 114	2 277	na	2 629	1 943
Paper bags including sack manufacturing	288	278	310	1 899	na	346	359
Solid fibreboard containers	537	506	556	551	na	659	649
Corrugated fibreboard containers	1 484	1 440	1 537	na ^b	na	2 420	3 202
Paper products nec	867	993	1 085	1 054	na	1 754	1 980
Total	5 196	5 179	5 602	5 780	na	7 808	8 133
Total value	11 182	11 498	12 201	13 626	na	16 565	18 105

^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.

132 Employment in forest products industries ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	'000	'000	'000	'000	'000	'000	'000
Forestry and logging	14.0	8.7	13.5	13.2	9.7	12.1	12.2
Manufacturing industries ^a							
Wood and wood products							
Log sawmilling	5.6	6.5	5.3	na	na	na	na
Resawn and dressed timber	6.2	6.2	7.9	na	na	na	na
Veneers, plywood and fabricated wood manufacturing	5.0	4.9	5.5	na	na	na	na
Wooden structural fittings and joinery nec	20.1	22.2	20.2	na	na	na	na
Hardwood woodchips	0.7	0.8	0.6	na	na	na	na
Wood products nec	5.7	6.2	5.7	na	na	na	na
Total	43.4	46.8	45.3	na	na	na	na
Paper and paper products							
Pulp, paper and paperboard	4.4	4.3	5.1	na	na	na	na
Paper bags including sack manufacturing	1.3	1.4	1.3	na	na	na	na
Solid fibreboard containers	2.5	2.6	2.9	na	na	na	na
Corrugated fibreboard containers	5.5	4.9	5.9	na	na	na	na
Paper products nec	3.7	3.6	4.6	na	na	na	na
Total wood	17.3	16.9	19.7	21.7	18.9	18.0	17.6
Total forestry manufacturing industries	60.7	63.6	65.0	69.7	73.7	78.5	71.4
Total employment	74.7	72.4	78.5	82.9	83.3	90.6	83.6

^a ANZSIC group and class. Based on PAYE employment statistics excluding volunteers. **na** Not available.

Source: ABS, *The Labour Force*, cat. no. 6203.0, Canberra; ABS, *Manufacturing Industry, Australia*, cat. no. 8221.0, Canberra.

133 Value of Australian forest products trade ^a

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Imports							
Roundwood	1.4	0.8	0.9	0.7	1.8	1.1	1.0
Sawnwood							
Coniferous roughsawn	201.5	282.3	197.3	190.6	223.8	211.6	182.3
Coniferous dressed	120.7	156.1	123.4	149.7	175.9	181.7	188.7
Broadleaved roughsawn	55.9	62.4	59.7	58.0	64.7	58.3	63.1
Broadleaved dressed	38.6	47.3	47.2	44.2	40.3	50.3	57.9
Total	416.7	548.1	427.7	442.5	504.7	501.9	492.0
Railway sleepers	0.1	0.0	0.0	0.0	0.0	0.1	0.0
Miscellaneous forest products ^b	396.3	475.9	461.5	528.1	589.3	583.5	586.0
Veneer	25.5	25.9	22.9	22.3	26.0	23.1	24.3
Plywood	63.7	77.4	64.9	80.0	111.6	112.1	127.7
Particleboard	7.9	11.3	13.8	18.7	21.5	17.2	24.4
Hardboard	6.2	6.6	5.5	7.1	6.0	10.7	18.8
Medium density fibreboard	30.6	55.4	34.7	31.7	29.4	22.9	15.0
Softboard and other fibreboard	8.5	12.7	9.7	9.9	11.8	7.1	8.4
Paper and paperboard							
Newsprint	239.5	257.9	277.5	219.8	243.9	261.0	260.7
Printing and writing	997.1	1 141.8	1 181.7	1 285.2	1 446.1	1 422.5	1 442.7
Household and sanitary	65.4	89.2	94.7	102.5	117.9	137.9	127.9
Packaging and industrial	454.2	508.8	534.1	403.3	303.2	280.8	306.6
Total	1 756.2	1 997.7	2 088.0	2 010.9	2 111.2	2 102.1	2 137.9
Paper manufactures ^c	348.0	356.2	377.5	373.2	409.9	375.3	442.0
Wastepaper	6.2	7.4	8.8	4.6	8.0	4.7	2.3
Pulp	193.1	219.8	316.6	221.3	253.7	235.1	225.1
Pulpwood	1.6	1.6	1.4	1.2	1.5	1.4	2.0
Total	3 262.0	3 797.0	3 834.1	3 752.1	4 086.3	3 998.2	4 107.1

Continued

133 Value of Australian forest products trade ^a *continued*

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Exports							
Roundwood	48.79	69.75	66.77	89.08	106.82	113.63	72.53
Sawnwood							
Coniferous roughsawn	5.07	3.09	12.49	15.86	13.10	18.20	40.72
Coniferous dressed	9.90	16.89	12.03	14.27	14.05	16.40	20.94
Broadleaved roughsawn	22.08	25.52	24.23	28.85	33.66	28.23	26.63
Broadleaved dressed	5.73	5.73	10.17	6.88	7.91	9.28	10.90
Total	42.78	51.23	58.92	65.87	68.72	72.12	99.19
Railway sleepers	6.33	6.21	9.03	6.54	4.37	4.21	3.99
Miscellaneous forest products ^b	65.59	61.62	71.16	54.66	53.03	49.42	65.36
Veneer	6.49	6.29	8.06	7.93	5.81	6.72	4.52
Plywood	2.76	2.73	2.98	5.31	2.62	2.95	4.81
Particleboard	23.29	21.52	26.49	26.66	17.41	11.26	6.35
Hardboard	0.03	6.29	10.63	5.99	4.00	5.81	4.50
Medium density fibreboard	64.50	98.69	150.56	162.43	145.57	112.45	118.89
Softboard and other fibreboard	10.28	11.79	7.79	6.56	9.91	9.26	11.37
Paper and paperboard							
Newsprint	6.90	1.58	2.56	1.27	0.92	0.23	0.67
Printing and writing	81.51	121.09	145.63	281.41	213.24	170.08	182.26
Household and sanitary	59.74	80.11	80.48	94.82	97.19	116.99	102.19
Packaging and industrial	207.24	287.86	300.18	263.00	314.40	342.25	336.54
Total	355.40	490.63	528.85	640.50	625.74	629.56	621.66
Paper manufactures ^c	61.72	65.85	83.82	141.79	156.77	136.11	116.14
Wastepaper	25.09	39.89	39.73	55.45	49.65	52.59	96.65
Pulp	0.90	1.59	4.55	2.84	2.12	1.37	4.40
Woodchips	585.94	646.10	743.77	711.99	807.95	794.44	858.24
Total	1 299.87	1 580.20	1 813.11	1 983.60	2 060.50	2 001.91	2 088.61

^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.

134 Australian production, trade and consumption of sawnwood

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 ^a
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Broadleaved (hardwood)							
Production	1 267	1 346	1 174	1 108	1 063	1 009	na
Imports	113	124	107	104	115	142	147
Exports	30	45	30	38	41	36	40
Consumption	1 350	1 425	1 248	1 174	1 138	1 115	na
Coniferous (softwood)							
Production	2 338	2 654	2 354	2 552	2 671	3 014	na
Imports	663	846	611	598	636	661	639
Exports	21	45	44	43	41	71	165
Consumption	2 980	3 455	2 912	3 111	3 271	3 608	na
Total broadleaved and coniferous							
Production	3 606	4 001	3 528	3 661	3 734	4 022	na
Imports	775	970	719	735	810	871	847
Exports	51	90	74	81	81	107	205
Consumption	4 330	4 880	4 160	4 286	4 408	4 723	na

^a Sawnwood production data no longer available. **na** Not available.

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

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Country							
Canada							
Douglas fir	104	127	64	65	73	50	48
Western red cedar	55	79	42	52	67	54	54
Other	13	45	20	14	15	22	19
Total	171	251	126	131	155	126	121
Malaysia							
Meranti a	42	40	28	28	30	30	27
Other	19	24	20	20	20	25	29
Total	60	64	47	48	49	55	56
New Zealand							
Radiata pine	315	380	302	321	331	332	303
Douglas fir	57	61	51	59	60	57	47
Other	48	51	35	39	47	47	48
Total	419	491	387	420	438	436	398
United States							
Douglas fir	46	27	16	12	6	3	1
Western red cedar	1	2	1	1	1	0	0
Other	10	15	12	10	11	9	6
Total	58	44	29	23	17	13	7
Region							
Asia	88	96	77	77	86	104	114
Europe	16	47	51	30	31	65	98
North America	229	295	155	154	172	139	127
Pacific	437	507	406	438	460	469	423
South America	2	4	4	2	6	17	22
Other	3	20	26	36	56	77	63
Total	775	970	719	735	810	871	847
(value \$m)	416.7	548.1	427.7	442.5	504.7	501.9	492.0

a Includes luan and seraya.

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

136 Australian production, trade and consumption of panel products

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Production							
Plywood ^a	169	192	157	192	219	146	156
Particleboard	902	978	904	965	1 025	1 048	944
Medium density fibreboard	495	621	712	732	786	795	794
Total	1 566	1 791	1 774	1 890	2 030	1 989	1 894
Imports							
Plywood	100	114	97	116	159	176	199
Particleboard	22	32	44	70	93	60	65
Hardboard	8	9	8	7	8	13	22
Medium density fibreboard	74	138	88	81	77	47	28
Softboard and other fibreboards	17	26	34	22	22	15	17
Total	222	319	271	296	359	312	331
Exports							
Plywood	4	10	7	11	2	2	4
Particleboard	77	69	98	100	54	32	14
Hardboard	0	5	6	10	8	12	8
Medium density fibreboard	206	288	389	403	405	357	365
Softboard and other fibreboards	47	40	14	11	26	18	14
Total	334	412	515	535	496	420	404
Consumption							
Plywood	265	296	247	297	377	320	351
Particleboard	846	941	850	935	1 063	1 077	995
Medium density fibreboard	364	471	411	411	458	485	457
Total	1 475	1 708	1 509	1 643	1 898	1 882	1 804

^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.

137 Australian production of plywood, by type

	Interior	Sliced and random grooved	Marine	Overlaid	Tongue and groove flooring	Structural	Exterior and other commercial	Total
	m ³	m ³	m ³	m ³	m ³	m ³	m ³	m ³
1970-71	na	na	na	na	na	na	na	104 614
1971-72	na	na	na	na	na	na	na	76 090
1972-73	na	na	na	na	na	na	na	72 515
1973-74	na	na	na	na	na	na	na	78 449
1974-75	na	na	na	na	na	na	na	81 984
1975-76	na	na	na	na	na	na	na	78 191
1976-77	na	na	na	na	na	na	na	85 333
1977-78	17 771	2 777	4 208	26 836	9 872	15 084	8 133	84 681
1978-79	14 914	1 625	3 706	28 978	10 807	19 768	8 451	88 249
1979-80	14 995	1 311	3 505	27 097	11 167	21 656	7 131	86 862
1980-81	12 862	1 482	3 026	29 012	10 959	23 812	7 622	88 775
1981-82	11 586	1 782	1 784	28 520	11 586	24 955	8 913	89 126
1982-83	10 724	715	2 860	21 448	7 149	22 163	6 434	71 493
1983-84	13 109	742	2 144	18 798	8 904	31 001	7 750	82 448
1984-85	8 287	1 515	2 584	24 595	9 624	35 111	7 396	89 112
1985-86	8 723	1 437	2 637	27 001	9 659	34 949	11 489	95 895
1986-87	7 908	917	2 208	30 169	7 829	39 534	8 672	97 237
1987-88	8 326	928	2 382	37 242	9 028	44 249	9 002	111 157
1988-89	7 526	779	2 976	39 584	11 808	54 757	12 326	129 756
1989-90	7 005	635	2 087	37 135	12 114	55 011	11 192	125 179
1990-91	4 753	404	1 618	25 686	11 933	47 226	9 506	101 126
1991-92	4 927	194	1 490	22 010	15 295	44 682	17 962	106 560
1992-93	5 190	207	1 482	22 585	18 813	53 290	20 446	122 014
1993-94	6 048	201	1 475	26 866	17 416	63 232	23 086	138 324
1994-95	4 400	190	1 332	33 206	14 804	69 300	21 800	145 032
1995-96	4 202	160	1 339	42 503	13 390	63 025	6 236	130 855
1996-97	5 218	70	1 188	32 402	14 140	75 175	23 183	151 376
1997-98	4 422	47	1 336	35 373	15 743	89 074	24 341	170 336
1998-99	3 615	0	1 151	31 105	15 183	92 698	25 258	169 010
1999-00	3 872	0	1 245	30 110	15 118	109 881	31 539	191 765
2000-01	3 730	0	1 049	24 719	20 412	89 191	17 934	157 035
2001-02	3 833	0	1 188	29 832	15 130	114 389	27 862	192 234
2002-03	3 684	0	1 180	35 357	14 996	135 118	28 991	219 326
2003-04 ^a	3 943	0	1 258	42 394	23 350	71 479	3 456	145 880
2004-05 ^a	2 979	209	1 174	41 975	22 984	66 019	20 646	155 986

^a Excludes laminated veneer lumber. **na** Not available.

Sources: Plywood Association of Australia; ABARE.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³
Plywood							
Chinese Taipei	0.04	0.00	0.00	0.00	0.02	0.02	0.02
Indonesia	37.02	39.16	25.92	29.56	34.62	36.46	49.32
Korea, Rep. of	0.00	0.03	0.03	0.00	0.04	0.01	0.02
Malaysia	10.39	16.87	15.98	15.73	20.73	19.80	19.02
New Zealand	37.33	38.40	30.74	47.24	70.26	80.76	82.56
Papua New Guinea	0.19	0.62	0.46	1.79	2.46	3.95	4.04
Singapore	3.18	0.89	0.60	2.29	2.10	1.35	0.92
Other	12.31	18.35	23.26	19.17	28.74	33.94	43.28
Total	100.45	114.31	97.01	115.77	158.97	176.29	199.18
(value, \$m)	63.7	77.4	64.9	80.0	111.6	112.1	127.7
Veneer							
Malaysia	1.46	2.28	1.59	1.48	2.83	3.18	3.19
New Zealand	4.55	1.73	0.30	34.56	0.56	3.07	8.51
Philippines	4.54	6.08	3.46	2.72	3.10	3.20	2.50
Singapore	0.34	0.36	0.18	0.46	0.22	0.14	0.28
South Africa	0.80	1.14	0.84	0.77	0.69	0.49	0.19
Thailand	0.03	0.06	0.06	0.14	0.08	0.02	0.03
United States	2.12	2.06	1.36	1.19	1.16	0.95	0.75
Other	4.92	6.61	4.52	4.48	4.60	4.30	5.48
Total	18.75	20.32	12.32	45.80	13.22	15.34	20.94
(value, \$m)	25.5	25.9	22.9	22.3	26.0	23.1	24.3
Particleboard							
Malaysia	0.35	0.47	0.32	0.31	0.25	0.97	1.87
New Zealand	17.44	27.72	31.67	35.01	27.52	24.12	42.27
Other	3.96	4.20	7.49	34.33	64.03	36.38	22.97
Total	21.68	31.94	43.90	70.00	92.99	60.50	65.23
(value, \$m)	7.9	11.3	13.8	18.7	21.5	17.2	24.4
Hardboard							
Brazil	1.41	0.90	1.49	0.17	0.20	0.18	0.17
New Zealand	2.22	5.03	3.65	3.94	3.42	4.50	7.06
Other	3.12	2.37	2.76	2.77	4.16	6.51	11.98
Total	7.64	9.27	8.24	7.30	7.98	12.77	21.68
(value, \$m)	6.2	6.6	5.5	7.1	6.0	10.7	18.8
Medium density fibreboard							
Malaysia	12.16	10.82	8.62	10.65	14.86	18.82	15.87
New Zealand	59.70	117.13	74.52	65.37	53.09	23.57	7.74
Other	2.54	9.69	5.11	5.41	9.39	4.78	4.12
Total	74.39	137.64	88.25	81.42	77.34	47.18	27.74
(value, \$m)	30.6	55.4	34.7	31.7	29.4	22.9	15.0
Softboard and other fibreboards							
New Zealand	10.40	17.87	12.49	7.92	8.65	3.23	7.00
Other	7.05	7.99	21.08	13.75	13.28	11.93	10.02
Total	17.46	25.86	33.56	21.67	21.93	15.16	17.02
(value, \$m)	8.5	12.7	10.1	9.9	11.8	7.1	8.4

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

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt
Production							
Newsprint	405.0	464.0	465.0	395.0	412.0	422.0	423.0 a
Printing and writing paper	497.0	535.0	554.0	624.0	564.0	585.0	604.0 a
Household and sanitary	187.0	232.0	204.0	198.0	194.0	200.0	196.0 a
Packaging and industrial paper	1 475.0	1 605.0	1 449.0	1 679.0	1 892.0	1 956.0	1 980.0 a
Total	2 564.0	2 836.0	2 672.0	2 897.0	3 061.0	3 164.0	3 203.0 a
Imports							
Newsprint	275.1	293.1	283.9	224.2	273.3	303.5	314.0
Printing and writing paper	718.0	838.6	760.4	838.5	970.6	1 099.1	1 186.5
Household and sanitary	40.1	53.5	54.8	55.9	66.7	84.6	77.9
Packaging and industrial paper	263.9	325.4	310.8	212.5	144.1	153.7	175.2
Total	1 297.2	1 510.6	1 409.8	1 331.1	1 454.7	1 641.0	1 753.6
Exports							
Newsprint	13.0	2.0	2.5	1.5	2.5	0.3	1.6
Printing and writing paper	59.9	97.1	100.2	301.9	199.9	158.7	174.7
Household and sanitary	14.7	23.2	23.4	42.8	51.2	35.2	36.6
Packaging and industrial paper	289.1	383.5	408.2	390.5	483.2	596.5	567.7
Total	376.6	505.8	535.0	736.7	736.9	790.7	780.6
Total consumption							
Newsprint	667.2	755.1	746.3	617.7	682.8	725.2	735.4
Printing and writing paper	1 155.2	1 276.5	1 214.2	1 160.7	1 334.7	1 525.4	1 615.8
Household and sanitary	212.4	262.3	235.4	211.1	209.4	249.4	237.3
Packaging and industrial paper	1 449.9	1 546.9	1 351.5	1 500.9	1 552.8	1 513.2	1 587.5
Total	3 484.6	3 840.8	3 546.9	3 491.4	3 778.8	4 014.3	4 176.0
Consumption per person							
Newsprint	35.3	39.4	38.4	31.5	34.4	36.1	na
Printing and writing paper	61.0	66.6	62.5	59.1	67.2	75.8	na
Household and sanitary	11.2	13.7	12.1	10.7	10.5	12.4	na
Packaging and industrial paper	76.6	80.8	69.6	76.4	78.1	75.2	na
Total	184.1	200.5	182.7	177.8	190.2	199.6	na

a A3P estimate. na Not available.

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

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

	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt
Newsprint a							
Canada	4.3	4.5	4.9	0.7	0.1	0.9	1.3
Finland	20.5	16.5	20.7	9.3	7.3	4.3	1.7
Indonesia	29.2	35.0	24.0	19.3	27.9	30.7	24.8
Korea, Rep. of	51.2	62.3	41.5	14.8	34.9	60.0	63.8
New Zealand	141.8	159.2	181.4	173.5	187.4	191.3	201.9
Other	28.0	15.6	11.4	6.7	15.7	16.2	20.5
Total	275.1	293.1	283.9	224.2	273.3	303.5	314.0
(value, \$m)	239.5	257.9	277.5	219.8	243.9	261.0	260.7
Printing and writing paper							
Austria	18.3	17.0	15.8	19.8	22.0	19.9	14.1
Brazil	5.5	8.0	2.3	2.5	4.8	4.0	5.5
Canada	32.6	45.1	21.4	17.7	41.4	39.8	31.7
Finland	148.3	152.0	145.4	158.9	156.9	180.5	226.4
Germany	56.5	43.8	38.4	31.6	49.5	74.1	63.4
Indonesia	127.6	123.5	75.9	61.5	90.1	113.4	70.3
Italy	43.9	49.5	46.3	27.5	35.0	63.2	50.4
Japan	31.7	40.0	34.0	34.3	43.1	36.4	41.3
Korea, Rep. of	35.9	36.6	22.0	28.6	32.6	42.4	103.3
New Zealand	7.4	5.4	2.1	17.0	34.9	28.2	30.6
Norway	20.7	21.9	15.5	15.3	18.5	19.6	16.7
South Africa	24.1	18.9	14.8	13.1	14.7	18.4	15.5
Sweden	40.6	43.6	41.5	53.3	58.4	70.3	83.9
United States	52.6	59.2	89.3	96.0	131.0	126.5	135.2
Other b	72.2	174.1	195.6	261.4	237.6	262.4	298.1
Total	718.0	838.6	760.4	838.5	970.6	1 099.1	1 186.5
(value, \$m)	997.1	1 141.8	1 181.7	1 285.2	1 446.1	1 422.5	1 442.7
Household and sanitary products							
Chinese Taipei	7.9	4.8	1.3	1.9	2.8	0.9	0.4
Indonesia	7.4	11.3	8.9	10.2	16.2	23.0	16.5
New Zealand	10.8	14.3	17.8	16.1	10.6	16.0	14.5
Other	14.0	23.1	26.8	27.7	37.1	44.7	46.4
Total	40.1	53.5	54.8	55.9	66.7	84.6	77.9
(value, \$m)	65.4	89.2	94.7	102.5	117.9	137.9	127.9

Continued

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

continued

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt
Packaging and industrial							
Belgium-Luxembourg	2.2	1.1	1.1	0.9	0.7	0.8	0.7
Brazil	3.2	3.1	2.0	0.6	0.7	0.7	0.8
China	6.3	4.9	6.6	6.9	8.6	10.4	15.5
Finland	26.4	35.6	40.8	19.1	15.7	15.1	16.3
France	5.6	4.0	3.3	2.8	3.4	4.7	5.4
Germany	16.5	33.9	24.4	16.3	8.8	7.2	7.1
Indonesia	4.5	6.7	4.3	3.7	3.9	4.9	6.9
Italy	4.2	7.5	8.3	6.8	11.4	8.6	7.0
Japan	1.7	1.6	0.7	0.7	3.5	3.6	4.2
Netherlands	5.3	4.5	4.3	2.7	3.3	2.9	2.4
New Zealand	45.3	69.0	77.0	45.2	19.6	19.0	32.0
Singapore	1.7	2.6	1.4	6.0	9.8	8.8	7.9
South Africa	3.9	8.5	10.8	12.0	5.6	6.3	7.3
Sweden	3.6	5.0	12.0	9.8	6.0	8.7	7.4
Thailand	9.2	14.9	0.4	4.1	3.1	5.9	8.5
United Kingdom	5.9	6.4	8.0	8.9	6.7	5.5	4.1
United States	109.2	105.5	93.2	56.3	19.7	13.7	14.4
Other	9.5	10.7	12.0	9.7	13.5	27.0	27.3
Total	263.9	325.4	310.8	212.5	144.1	153.7	175.2
(value, \$m)	454.2	508.8	534.1	403.3	303.2	280.8	306.6

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

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

141 Australian production of wood pulp and use of wastepaper

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt
Mechanical	366	376	362	395	485	617	na
Chemical ^a	506	508	534	698	770	781	na
Total pulp	872	884	896	1 093	1 255	1 398	na
Wastepaper used	1 536	1 542	1 634	1 554	1 654	1 707	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.

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt
Mechanical							
Canada	0.1	0.2	0.2	0.4	0.4	0.5	0.4
New Zealand	7.6	7.6	6.0	3.9	5.8	3.1	6.2
United States	0.4	0.1	0.4	0.2	0.1	0.0	0.0
Total	8.2	8.1	7.6	4.5	6.5	3.9	7.5
(value, \$m)	6.0	6.5	8.2	3.9	4.7	2.5	5.2
Chemical							
Brazil	51.4	10.6	16.9	24.4	33.9	55.4	59.0
Canada	40.8	44.5	33.9	23.4	45.1	55.4	58.5
Finland	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia	48.7	45.3	47.3	44.7	43.8	30.7	9.8
New Zealand	91.0	88.3	110.9	120.2	122.7	106.4	108.7
United States	23.9	29.6	22.2	7.2	9.0	5.4	10.5
Other	22.5	36.3	55.6	56.5	74.0	89.6	70.4
Total	278.1	254.6	286.8	276.4	328.5	343.1	316.9
(value, \$m)	172.5	209.0	299.9	192.6	232.0	212.7	204.0
Semichemical							
Total	23.6	12.6	9.0	33.6	24.0	29.7	25.9
(value, \$m)	14.6	4.3	8.6	24.7	17.1	19.9	15.8
Total wood pulp							
Total	309.9	275.4	303.4	314.5	359.0	376.6	350.3
(value, \$m)	193.1	219.8	316.6	221.3	253.7	235.1	225.1

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

143 Volume of Australian roundwood and woodchip trade

	Imports		Exports		
	Roundwood a	Roundwood a	Woodchips b		Total
	'000m ³	'000m ³	Coniferous kt	Broadleaved 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	3 081
1978-79	17.0	na	na	na	3 554
1979-80	0.6	na	na	na	4 426
1980-81	0.1	na	na	na	4 219
1981-82	1.7	na	na	na	3 821
1982-83	1.7	na	na	na	3 797
1983-84	0.5	na	na	na	4 443
1984-85	0.5	na	na	na	4 565
1985-86	1.0	na	na	na	4 447
1986-87	1.0	na	na	na	4 954
1987-88	1.7	na	na	na	4 025
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

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

144 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	1 548.7	1 411.4	137.3	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	2 104.2	1 936.2	168.0	430.6	na	30.0	6.6

na Not available.

Sources: ABS, *Australian Wine and Grape Industry*, cat. no. 1329.0, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra; 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.

145 Australian wine exports, by type and major destination

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Type								
Table wine	ML	206.66	276.23	329.81	406.31	498.16	568.76	646.92
Red	ML	100.80	144.86	179.79	233.23	307.09	364.08	418.00
White	ML	105.86	131.37	150.02	173.08	191.07	204.68	228.92
Sparkling wine	ML	6.73	8.19	6.60	6.93	7.23	9.23	11.21
Carbonated wine	ML	0.24	0.16	0.34	0.89	0.76	0.66	0.99
Fortified wine	ML	2.58	2.15	2.27	1.86	1.79	2.11	1.53
Other wine	ML	0.12	0.00	0.22	0.91	0.78	0.66	1.36
Total	ML	216.09	286.50	338.90	416.01	507.96	580.76	661.02
Major destination								
Canada	\$m	50.8	73.7	91.2	123.5	174.5	205.1	247.4
China	\$m	1.7	1.6	2.2	2.4	3.5	5.9	9.9
Germany	\$m	24.9	40.9	50.1	48.0	60.9	77.0	71.7
Hong Kong, China	\$m	10.3	12.6	14.5	16.9	15.2	17.9	20.0
Ireland	\$m	27.2	37.4	40.1	42.7	40.3	49.6	53.9
Japan	\$m	25.0	29.4	29.5	30.0	31.5	35.7	48.7
Netherlands	\$m	21.3	36.2	33.9	33.4	40.6	39.3	46.0
New Zealand	\$m	60.2	65.3	77.2	84.7	101.4	98.1	93.7
Singapore	\$m	10.2	14.9	17.2	20.0	22.4	30.7	33.1
Sweden	\$m	12.7	20.3	18.6	25.2	33.3	39.2	36.2
Switzerland	\$m	19.1	28.4	30.9	30.1	36.7	24.1	19.7
Thailand	\$m	2.1	2.5	2.7	3.4	4.4	5.2	7.7
United Kingdom	\$m	446.5	590.4	689.8	842.6	857.0	860.3	966.7
United States	\$m	215.7	316.9	417.3	583.2	857.7	905.5	897.1
Other	\$m	62.9	76.9	98.9	83.9	106.5	151.5	196.7
Value	\$m	990.6	1 347.4	1 614.1	1 970.0	2 385.9	2 545.1	2 748.4
Unit value	\$/L	4.58	4.70	4.76	4.74	4.70	4.38	4.16

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

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

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	ML	ML	ML	ML	ML	ML	ML
Table wine	287.40	307.09	325.33	329.60	344.47	355.04	367.55
Red	99.09	114.05	125.56	130.08	142.84	147.07	157.44
White	188.31	193.04	199.76	199.52	201.63	207.96	210.11
Sparkling wine	32.62	32.57	30.66	29.42	31.62	34.68	38.39
Bottle fermented	20.29	18.22	16.71	17.42	22.99	21.56	22.98
Bulk fermented	12.33	14.35	13.95	12.00	8.63	13.12	15.41
Carbonated wine	1.45	3.51	3.29	3.12	2.80	3.47	2.73
Total unfortified wine	321.46	343.18	359.28	362.14	378.89	393.19	408.67
Total fortified wine	23.92	22.99	22.19	20.36	20.84	21.20	19.93
Vermouth and other wine	2.97	3.11	3.38	2.79	2.75	2.99	1.99
Total domestic sales	348.35	369.28	384.85	385.29	402.48	417.38	430.59
Total wine	372.60	388.88	397.62	399.77	419.59	436.16	454.98
Wine imports							
Table wine	20.14	14.10	8.12	9.20	11.58	11.87	14.78
Sparkling wine	2.92	3.83	2.91	3.28	3.85	4.78	5.19
Fortified wine	0.09	0.69	0.11	0.20	0.19	0.73	0.25
Other	1.11	1.00	1.64	1.80	1.50	1.40	1.92
Total	24.26	19.61	12.77	14.48	17.11	18.74	22.14

^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.

147 Australian wine grape production and prices

	Unit	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Bearing area	'000 ha	94	111	136	140	146	153
Wine grape production							
Red wine	kt	538.0	794.7	910.7	804.5	1 093.3	1 085.9
White wine	kt	437.0	498.2	575.8	518.6	683.0	751.9
Multipurpose	kt	154.0	129.0	119.9	88.2	119.0	98.4
Total	kt	1 129.0	1 421.9	1 606.3	1 411.4	1 895.3	1 936.2
Exports							
Wine	ML	286.5	338.9	416.0	508.0	580.8	661.0
– value	A\$m	1 347.4	1 614.1	1 970.0	2 385.9	2 545.1	2 748.4
Australian weighted average price							
White wine	A\$/t	868.0	753.0	599.4	655.4	668.6	628.5
Red wine	A\$/t	661.0	701.0	701.2	562.1	501.4	438.6

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.

148 Retail price indexes for alcoholic beverages ^a

	Beer	Wine	Spirits	Consumer price index ^b
1980-81	46.3	56.8	47.5	49.4
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	148.6	165.0	147.0

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

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

149 Production and trade in Australian dried vine fruit

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production									
Dried weight	kt	29	44	31	17	34	17	27	30
Fresh weight ^s	kt	131	119	133	90	146	76	128	141
Gross value	\$m	42	66	82	57	99	48	88	87
Gross unit value ^a	\$/t	1 440.0	1 495.0	2 641.3	3 423.1	2 921.9	2 847.0	3 245.6	2 900.0
Exports									
Volume	kt	12	14	5	6	6	10	7	7
Value	\$m	30	37	13	17	14	20	15	15

^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.

Source: Australian Dried Fruits Association, *Australian Dried Fruits Association News*, Mildura.

150 Production and exports of Australian citrus, by variety

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Navel oranges									
Production	kt	210	149	180	252	178	296	208	225
Exports a	kt	73.72	60.51	68.68	99.09	86.83	101.12	67.09	80.87
– value	\$'000	76 991	74 204	86 728	111 775	110 403	119 164	84 644	94 457
Valencia oranges									
Production	kt	356	299	337	399	236	337	199	228
Exports a	kt	43.54	51.64	42.81	51.39	47.77	32.14	25.94	29.18
– value	\$'000	30 659	44 292	35 361	35 313	40 820	25 761	21 670	23 591
Mandarins									
Production	kt	81	94	91	79	78	98	97	102
Exports a	kt	12.77	16.12	16.32	27.13	23.55	29.63	28.57	27.37
– value	\$'000	20 948	22 318	25 584	37 137	40 012	49 206	43 282	40 594
Lemons and limes									
Production	kt	35	30	30	33	31	38	31	36
Exports a	kt	3.84	4.03	4.54	3.22	3.58	4.05	1.83	0.91
– value	\$'000	5 727	5 554	6 974	4 249	5 694	6 081	2 340	1 109
Grapefruit									
Production	kt	16	15	13	14	14	12	10	11
Exports a	kt	0.20	0.27	0.15	0.22	0.31	0.34	0.54	0.29
– value	\$'000	221	296	174	254	462	557	649	325

a Fresh and dried.

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

151 Summary of Australian statistics for meat ^a

	Cattle numbers ^b million	Sheep numbers ^b million	Total red meat production ^c kt	Total red meat exports ^d kt	Total domestic consumption kt	Consumption per person			
						Beef and veal ^e kg	Lamb and mutton kg	Pig meat kg	Poultry meat kg
1960	16.50	154.9	1 426	330	1 024	38.7	46.0	8.3	4.4
1961	17.33	152.4	1 361	461	987	42.4	44.5	9.4	4.4
1962	18.03	157.4	1 545	556	1 030	45.3	42.4	8.8	4.4
1963	18.55	158.3	1 647	597	1 069	47.5	40.6	8.5	4.4
1964	18.40	164.7	1 718	653	1 078	45.0	38.6	8.8	5.2
1965	18.19	170.3	1 717	622	1 080	42.0	37.6	9.5	6.2
1966	17.39	157.3	1 706	564	1 047	38.6	38.0	9.8	7.4
1967	17.71	163.9	1 645	608	1 059	40.7	38.5	10.1	8.4
1968	18.65	166.6	1 720	598	1 088	41.3	40.7	10.8	9.0
1969	20.02	174.3	1 850	785	1 136	38.6	37.5	11.3	10.5
1970	21.55	179.8	1 955	775	1 120	39.6	36.4	13.6	10.4
1971	23.73	177.5	2 148	924	1 263	40.3	43.6	13.8	11.1
1972	26.70	162.7	2 283	1 168	1 240	40.4	39.2	14.6	12.3
1973	28.44	139.9	2 269	1 154	1 163	43.6	27.5	16.0	13.0
1974	30.16	145.0	1 945	665	1 278	55.0	25.6	13.1	13.4
1975	32.04	151.5	2 364	1 001	1 415	62.0	23.7	11.7	13.4
1976	32.67	148.5	2 670	1 204	1 421	66.4	21.1	12.1	14.4
1977	30.95	135.2	2 889	1 420	1 440	70.3	19.4	13.0	15.6
1978	28.63	131.3	2 824	1 449	1 370	65.9	17.0	13.3	16.6
1979	26.41	134.1	2 513	1 334	1 229	50.4	21.0	13.5	18.7
1980	25.52	135.9	2 311	1 159	1 180	45.3	19.8	15.5	20.1
1981	24.50	134.3	2 172	939	1 232	48.2	19.2	15.3	20.2
1982	23.89	137.9	2 473	1 184	1 294	50.1	20.7	14.8	19.4
1983	21.86	130.4	2 131	948	1 218	43.0	20.9	15.9	20.2
1984	21.54	135.2	2 003	709	1 301	45.0	22.5	16.4	19.8
1985	22.15	145.5	2 162	859	1 288	40.7	24.7	16.7	21.6
1986	22.80	150.3	2 341	1 032	1 306	42.0	22.9	17.2	22.8
1987	21.31	149.1	2 452	1 131	1 314	40.5	23.3	17.3	23.2
1988	21.24	152.3	2 404	1 102	1 310	40.6	21.6	17.7	24.0
1989	21.80	161.5	2 465	1 087	1 387	42.7	22.7	18.0	24.3
1990	22.53	170.2	2 705	1 312	1 375	40.0	22.8	18.6	25.1
1991	23.66	163.2	2 739	1 381	1 385	39.5	22.8	18.7	25.5
1992	23.88	148.2	2 827	1 499	1 339	37.2	20.5	19.7	25.4
1993	24.06	138.1	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	1 497	1 414	41.0	16.9	19.0	29.3
1998	26.85	117.5	2 973	1 606	1 390	38.2	16.9	19.5	31.1
1999	26.04	115.4	2 982	1 637	1 388	38.3	16.0	19.4	31.3
2000	27.59	118.6	3 132	1 759	1 446	38.1	17.8	19.9	33.2
2001	27.72	110.9	3 136	1 849	1 352	34.9	16.2	19.0	32.7
2002	27.87	106.2	3 131	1 803	1 423	37.4	14.7	20.8	36.3
2003	26.66	99.3	2 960	1 622	1 452	38.2	12.9	22.5	35.1
2004	27.46	101.3	3 081	1 787	1 426	36.3	12.6	22.7	35.0

^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.

152 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
1978	70.3	70.4	61.2	65.9	87.8	46.9	114.9
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	34.5	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	175.7	68.4	218.1
1996	185.4	163.2	129.9	155.3	216.1	67.7	247.4
1997	190.0	184.7	135.3	162.6	192.1	75.2	218.6
1998	208.2	203.3	158.3	181.0	158.3	79.3	179.9
1999	233.1	215.4	183.5	204.3	187.5	60.6	216.0
2000	261.8	246.1	219.7	237.1	168.3	71.8	249.1
2001	331.0	315.5	289.4	307.2	251.7	143.8	276.2
2002	289.3	275.4	235.3	259.1	314.6	169.9	260.3
2003	318.7	309.3	249.9	281.3	387.1	203.5	240.1
2004	343.9	324.0	289.3	310.2	353.5	173.7	245.1
2004							
January	329.3	322.1	282.8	305.0	372.1	180.1	240.1
February	320.3	300.7	252.1	282.5	381.0	189.4	226.6
March	320.7	302.8	261.3	286.5	360.6	182.6	222.0
April	315.8	292.8	288.9	279.1	349.8	173.7	220.6
May	316.0	298.6	292.6	280.8	364.4	182.6	217.9
June	332.1	313.0	270.2	296.9	323.1	200.9	217.1
July	351.7	328.0	282.5	312.3	261.3	115.6	230.8
August	368.5	348.3	300.2	331.6	453.4	209.6	253.8
September	378.1	353.9	317.5	345.2	374.5	180.3	277.8
October	365.2	344.6	305.6	333.7	313.0	156.4	277.8
November	365.0	350.6	318.1	341.1	334.8	155.9	278.1
December	363.7	333.0	300.0	327.2	354.3	157.1	278.3
2005							
January	371.3	328.6	287.9	322.2	343.0	146.9	265.7
February	364.5	326.4	285.1	318.2	344.3	158.9	257.7
March	359.1	318.1	275.5	310.8	332.3	154.1	246.3
April	343.6	311.8	265.2	300.1	325.6	157.9	235.1
May	341.4	313.1	265.4	300.0	334.0	168.2	219.7
June	341.0	310.0	265.4	295.0	358.5	183.0	215.9

^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.

153 Australian retail prices of meat

	Beef a c/kg	Lamb a c/kg	Pork a c/kg	Chicken b c/kg
1980	545.7	370.7	384.0	204.5
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	363.6
2002	1 320.7	982.8	1 024.8	384.7
2003	1 367.4	1 086.2	1 021.3	383.1
2004	1 400.1	1 055.6	1 038.1	381.1
2001				
March	1 114.2	765.1	889.4	370.7
June	1 214.2	847.5	920.1	342.4
September	1 253.8	897.4	962.5	364.1
December	1 322.6	921.4	1 010.5	377.2
2002				
March	1 328.2	962.1	1 047.4	383.8
June	1 339.5	1 007.9	1 021.7	395.1
September	1 298.1	979.8	1 016.1	383.1
December	1 316.9	981.5	1 014.0	376.8
2003				
March	1 325.4	981.4	1 020.3	383.8
June	1 360.3	1 075.4	1 016.8	396.5
September	1 390.4	1 153.3	997.3	374.8
December	1 393.3	1 134.4	1 050.9	377.2
2004				
March	1 396.1	1 144.7	1 045.3	382.0
June	1 393.3	1 136.7	1 017.5	381.3
September	1 381.0	978.4	1 044.7	381.3
December	1 430.0	962.6	1 044.7	379.8
2005				
March	1 474.3	969.1	1 044.7	378.4
June	1 472.6	977.0	1 052.8	367.0

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.

154 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 US\$/kg cif	Boneless frozen ^b A\$/kg fas	Boneless frozen A\$/kg fob	Boneless chilled A\$/kg fob	Boneless chilled ^c A\$/kg fob	Carcasses frozen A\$/kg fob	Bone-in frozen A\$/kg fob
1980	263.0	200.0	na	na	na	166.0	na
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	273.0	336.6	378.4	710.5	766.5	349.6	539.5
2003							
March	203.9	309.6	310.8	647.2	833.5	297.5	434.0
June	185.5	256.7	307.6	640.4	735.7	311.5	493.4
September	213.7	292.6	308.0	633.1	697.6	330.2	535.3
December	245.2	309.4	333.8	660.1	647.6	349.5	557.4
2004							
March	245.5	287.8	363.9	705.8	604.9	348.1	507.9
June	265.8	336.6	386.5	727.2	882.9	347.0	592.8
September	298.1	386.6	380.5	711.3	804.0	356.1	511.1
December	282.7	342.6	382.7	697.6	774.0	347.2	546.4
2005							
March	279.0	325.6	372.7	718.7	420.3	351.4	609.0
June	284.6	335.3	385.8	706.7	500.7	375.5	623.0

^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.

155 Australian exports of meat, by product ^a

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity									
Beef and veal ^b	kt	821	883	852	959	902	902	860	948
Mutton ^b	kt	163	155	171	180	158	119	120	148
Lamb ^b	kt	71	85	99	115	109	98	109	120
Pig meat ^b	kt	12	16	39	44	59	63	51	43
Poultry meat ^b	kt	14	19	17	21	21	23	20	20
Canned meat	kt	11	12	10	3	6	2	0	1
Live sheep ^c	'000	4 961	4 959	4 859	5 936	6 443	5 843	3 843	3 233
Live cattle ^c	'000	692	713	846	846	797	968	578	550
Value ^d									
Beef and veal ^e	\$m	2 610	2 863	3 119	4 007	4 189	3 756	3 793	4 584
Mutton ^e	\$m	369	309	326	416	490	346	379	418
Lamb ^e	\$m	275	305	369	508	626	554	636	701
Pig meat	\$m	52	71	159	186	265	256	181	150
Poultry meat	\$m	18	23	21	26	26	22	20	20
Canned meat ^e	\$m	47	53	50	16	39	17	12	12
Live sheep ^c	\$m	193	182	180	258	392	408	266	207
Live cattle ^c	\$m	333	343	433	482	526	562	314	335
Total	\$m	3 850	4 095	4 606	5 882	6 514	5 905	5 590	6 413
Unit value ^d									
Beef and veal	\$/kg	3.18	3.24	3.66	4.18	4.65	4.17	4.41	4.84
Mutton	\$/kg	2.27	1.99	1.91	2.31	3.09	2.91	3.17	2.91
Lamb	\$/kg	3.87	3.77	3.78	4.38	5.29	5.43	5.36	5.46
Pig meat	\$/kg	4.21	4.31	4.05	4.22	4.50	4.08	3.58	3.44
Poultry meat	\$/kg	1.31	1.21	1.22	1.23	1.23	0.95	0.98	1.01
Live sheep	\$/head	38.96	36.64	37.12	43.41	60.79	69.87	69.34	63.92
Live cattle	\$/head	483.64	476.89	514.68	575.88	664.48	579.41	545.88	609.38

^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.

156 Summary of world statistics for livestock

	Livestock numbers		Production				EU stocks ^a
	Cattle million	Sheep million	Beef and veal Mt	Mutton and lamb Mt	Pig meat Mt	Poultry meat Mt	Beef and veal kt
1960	na	na	na	na	na	na	na
1961	941	994	27.7	4.9	24.7	8.9	na
1962	957	997	29.2	5.0	26.1	9.2	na
1963	970	999	30.9	5.0	28.0	9.7	na
1964	988	1 013	31.3	5.0	28.7	10.1	na
1965	1 008	1 030	31.9	5.0	31.3	11.0	na
1966	1 028	1 040	33.6	5.1	32.4	11.7	na
1967	1 050	1 058	35.3	5.3	33.9	12.4	na
1968	1 063	1 072	37.0	5.4	34.4	12.8	na
1969	1 070	1 079	37.9	5.4	34.1	13.7	na
1970	1 082	1 061	38.4	5.5	35.8	15.1	na
1971	1 097	1 064	38.0	5.6	39.4	15.7	na
1972	1 120	1 036	38.5	5.7	40.6	16.8	na
1973	1 139	1 015	38.8	5.4	40.4	17.6	na
1974	1 166	1 027	41.8	5.1	42.4	18.2	na
1975	1 187	1 046	43.7	5.3	41.6	18.6	na
1976	1 199	1 046	46.1	5.3	40.7	20.0	na
1977	1 204	1 036	46.4	5.3	42.9	21.2	na
1978	1 206	1 049	46.9	5.4	45.6	22.7	na
1979	1 210	1 067	45.7	5.4	50.1	24.4	na
1980	1 216	1 096	45.5	5.6	52.7	25.9	na
1981	1 228	1 110	45.9	5.9	53.0	27.5	na
1982	1 243	1 129	45.8	5.9	53.1	28.3	203.3
1983	1 248	1 124	47.0	6.1	55.4	29.1	372.5
1984	1 254	1 119	48.4	6.1	57.4	29.7	604.3
1985	1 259	1 119	49.2	6.2	59.9	31.1	644.1
1986	1 266	1 115	50.9	6.2	61.4	33.2	459.7
1987	1 266	1 136	51.0	6.4	63.5	35.7	686.2
1988	1 271	1 150	51.4	6.6	67.0	37.5	379.0
1989	1 287	1 178	51.7	6.8	68.0	38.7	113.0
1990	1 296	1 189	52.9	7.0	69.8	40.9	512.0
1991	1 297	1 164	53.6	7.1	70.8	42.9	708.0
1992	1 299	1 135	52.4	7.1	72.9	45.1	872.0
1993	1 298	1 107	51.9	7.2	75.3	47.7	334.0
1994	1 311	1 093	47.3	6.6	77.5	51.5	40.0
1995	1 332	1 091	54.1	7.2	78.5	54.4	8.0
1996	1 338	1 073	54.6	7.1	78.4	56.0	420.0
1997	1 333	1 057	55.3	7.2	82.1	59.6	615.0
1998	1 331	1 053	55.2	7.3	87.6	62.2	513.0
1999	1 335	1 044	56.3	7.3	89.9	65.4	25.0
2000	1 345	1 055	56.9	7.6	89.5	68.7	2.0
2001	1 360	1 035	56.1	7.6	92.1	71.9	295.0
2002	1 328	1 033	57.8	7.7	95.3	74.8	275.0
2003	1 336	1 042	58.4	7.9	98.4	76.5	85.0
2004	1 375	1 059	59.2	8.2	100.9	78.6	85.0

^a Fifteen countries to 2003, then twenty five countries from 2004. **na** Not available.

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

157 Summary of US meat statistics

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Cattle numbers a	million	101.7	99.7	99.1	98.2	97.3	96.7	96.1	94.9
Beef and veal b									
Production c	kt	11 714	11 804	12 124	12 298	11 983	12 427	12 039	11 261
Imports	kt	1 063	1 199	1 303	1 375	1 435	1 460	1 363	1 669
Exports and shipments	kt	969	985	1 094	1 119	1 029	1 110	1 142	209
Total consumption	kt	11 767	12 052	12 325	12 503	12 351	12 739	12 341	12 667
Consumption per person	kg	43.3	44.5	45.2	44.4	43.5	44.1	42.6	42.7
Pork b									
Production c	kt	7 835	8 623	8 758	8 596	8 691	8 929	9 073	9 312
Imports	kt	287	320	375	439	431	486	538	499
Exports and shipments	kt	474	558	580	584	708	732	779	988
Total consumption	kt	7 629	8 305	8 596	8 457	8 388	8 684	8 816	8 818
Consumption per person	kg	28.1	30.7	31.8	30.1	29.5	30.1	30.5	29.7
Poultry d									
Production c	kt	14 721	14 891	15 739	16 122	16 523	17 024	17 255	17 925
Exports and shipments	kt	2 273	2 180	2 252	2 433	2 742	2 376	2 456	2 364
Total consumption	kt	12 427	12 716	13 474	13 697	13 826	14 589	14 734	15 359
Consumption per person	kg	46.2	46.7	49.1	49.3	47.5	50.6	49.6	51.8

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

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

158 Summary of New Zealand meat statistics a

	Unit	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Livestock numbers b									
Cattle	million	9.0	9.1	8.9	9.0	9.0	9.3	9.8	9.6
– dairy cattle	million	4.2	4.3	4.4	4.3	4.4	4.5	5.1	5.2
– beef cattle	million	4.9	4.8	4.4	4.6	4.7	4.8	4.6	4.5
Sheep	million	47.4	46.8	46.0	45.7	45.4	44.0	39.7	40.0
Production c									
Beef and veal	kt	664.0	620.0	558.0	580.0	609.0	589.0	660.1	720.0
Lamb	kt	419.0	416.5	401.0	427.8	433.5	413.8	436.0	411.3
Mutton	kt	124.0	128.6	116.6	104.9	128.7	107.2	111.0	107.0
Exports of meat d									
Beef and veal	kt	346.0	353.8	300.0	310.9	331.7	322.8	370.8	420.3
Lamb	kt	290.0	282.0	271.1	296.5	301.9	286.5	322.4	294.6
Mutton	kt	64.5	59.7	54.4	50.4	58.8	52.0	69.4	57.0
Consumption per person ce									
Beef and veal	kg	40.6	40.3	31.3	31.0	27.1	27.9	30.9	na
Lamb	kg	10.2	10.0	7.7	10.2	9.7	10.7	11.3	na
Mutton	kg	7.8	8.0	6.6	7.5	6.9	5.3	5.5	na

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. na Not available.

Sources: Meat and Wool New Zealand, *Annual Report*, Wellington; Meat and Wool Economic Service of New Zealand, *Annual Review of the New Zealand Sheep and Beef Industry*, Wellington.

159 Gross value of Australian livestock slaughterings

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m
Livestock slaughterings						
Cattle and calves a	4 616.1	5 948.8	6 616.9	5 849.5	6 345.1	7 330.8
Cattle exported live b	432.6	481.8	525.5	561.6	313.7	335.1
Sheep c	204.6	367.6	544.5	446.4	454.2	396.8
Lambs cd	668.6	776.5	1 181.4	1 182.2	1 318.1	1 258.0
Sheep exported live b	180.3	257.7	391.7	408.2	266.5	206.7
Pigs	791.7	822.3	967.7	911.3	878.9	924.4
Poultry	1 030.8	1 060.2	1 174.9	1 280.5	1 280.8	1 440.1
Total	7 944.2	9 737.8	11 434.5	10 676.0	10 896.0	11 929.9

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.

160 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	665
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	1 189	754
1998	9 308	213	1 987	1 278	711
1999	8 756	227	1 991	1 272	721
2000	8 734	235	2 053	1 329	726
2001	8 764	237	2 079	1 407	674
2002	9 050	231	2 090	1 362	729
2003	8 906	224	1 998	1 246	754
2004	8 803	240	2 113	1 395	724

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.

161 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									
1995	2 910	1 229	4 522	529	946	224	847	7	11 213
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	2 868	1 233	6 003	562	1 031	254	1 065	5	13 021
Total beef cattle and calves									
1995	5 867	2 659	9 689	1 064	1 773	507	1 419	13	22 991
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	24 739
Total dairy cattle and calves									
1995	370	1 621	285	152	126	185	1	0	2 740
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	3 054
2005	405	1 897	223	159	118	187	0	0	2 988
Total cattle and calves									
1995	6 236	4 280	9 974	1 216	1 899	793	1 421	13	25 731
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	27 727

^a At 31 March, an establishment with an estimated value of agricultural operations (EVAO) of \$5 000 or more. From 2000, at 30 June. House cows are excluded.

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

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

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Beef and veal									
Americas									
Canada	kt	35.0	38.6	43.3	41.5	50.9	82.9	29.0	7.5
United States	kt	220.9	285.2	291.1	352.3	397.7	385.9	367.9	347.2
Asia									
Chinese Taipei	kt	35.0	33.7	34.7	28.6	29.1	34.4	31.1	25.5
Hong Kong, China	kt	3.4	6.2	3.2	3.6	3.1	2.9	2.1	2.4
Indonesia	kt	24.3	1.7	11.6	13.1	9.6	14.6	13.0	7.1
Japan	kt	311.7	320.9	313.3	325.7	319.1	237.0	279.3	393.5
Korea, Rep. of	kt	60.9	33.5	77.9	73.3	56.8	80.2	62.3	93.3
Malaysia–Singapore	kt	12.7	11.0	10.6	9.4	8.8	11.3	10.2	6.9
Philippines	kt	26.9	20.2	20.4	14.3	19.7	12.9	8.6	2.1
Europe									
European Union b	kt	10.8	11.0	8.9	5.6	6.5	6.5	5.5	6.7
CIS	kt	9.6	24.5	8.4	1.4	5.3	1.4	0.3	0.4
Eastern Europe	kt	8.9	18.7	2.5	2.1	0.4	3.0	1.4	0.4
Middle East									
Kuwait	kt	0.7	1.4	0.5	0.1	1.1	0.4	2.5	0.7
Saudi Arabia	kt	1.1	2.6	1.0	0.5	5.0	2.3	1.8	0.7
United Arab Emirates	kt	0.9	1.6	0.6	0.9	2.0	1.7	1.1	1.2
Oceania									
New Zealand	kt	1.8	1.8	1.6	3.1	1.4	6.8	3.5	2.3
Pacific Isles	kt	3.1	3.1	2.1	2.3	2.5	2.7	2.1	1.7
Papua New Guinea	kt	10.8	7.0	8.2	7.1	4.8	4.3	2.3	2.5
Total beef and veal	kt	801.7	855.3	868.0	901.6	946.6	920.4	840.9	913.8
Live cattle									
Slaughter cattle									
Asia									
Indonesia	'000	421.7	41.2	159.5	296.7	287.7	425.6	375.8	356.8
Japan	'000	19.4	17.0	12.4	14.4	17.4	14.0	21.0	17.1
Malaysia	'000	57.5	42.7	65.2	56.5	77.5	90.9	86.4	47.4
Philippines	'000	253.8	215.9	266.1	223.8	97.4	113.1	74.5	46.7
Middle East									
Egypt	'000	37.5	119.6	240.5	207.6	203.2	143.9	7.6	0.0
Israel	'000	0.0	8.7	8.7	15.8	32.6	47.8	43.2	20.9
Jordan	'000	2.5	18.1	37.6	40.7	13.2	4.4	23.1	34.2
Libya	'000	105.3	120.7	23.1	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	'000	1.1	0.0	0.0	0.0	20.8	54.3	15.7	0.0
Total	'000	910.5	597.0	833.7	887.0	797.9	951.1	683.7	551.5
Breeding cattle	'000	35.2	24.1	10.6	9.0	24.6	16.8	84.9	66.8
Total live cattle	'000	945.7	621.1	844.2	896.0	822.5	967.9	768.6	618.3

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.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Beef and veal								
Americas								
Canada	80.6	104.6	128.0	148.1	204.4	320.2	110.9	38.1
United States	500.4	735.2	805.1	1 172.8	1 699.7	1 593.6	1 332.3	1 374.4
Asia								
Chinese Taipei	112.9	108.2	123.2	116.7	132.6	152.3	126.7	119.5
Hong Kong, China	13.5	23.6	16.6	18.2	17.8	17.1	15.0	27.2
Indonesia	59.4	6.1	33.3	40.8	37.2	46.1	38.4	26.6
Japan	1 207.9	1 312.4	1 369.7	1 537.3	1 728.2	1 237.7	1 384.4	2 189.8
Korea, Rep. of	144.7	87.6	201.9	221.7	228.9	320.4	250.7	434.4
Malaysia–Singapore	71.7	66.7	68.7	70.6	78.7	91.4	86.8	74.6
Philippines	51.6	40.4	38.5	34.3	55.8	36.1	23.0	4.4
Europe								
European Union ^a	54.7	58.6	61.3	37.4	48.4	53.5	49.2	62.7
CIS	20.9	58.2	18.1	3.8	14.4	2.9	0.7	2.0
Eastern Europe	19.7	43.6	6.9	6.3	1.2	9.1	4.5	1.4
Middle East								
Kuwait	1.9	3.6	1.6	0.3	4.6	1.8	9.8	3.4
Saudi Arabia	3.0	7.4	3.3	2.1	23.0	11.6	7.8	3.2
United Arab Emirates	3.6	5.4	2.5	4.4	11.6	10.9	7.8	11.8
Oceania								
New Zealand	3.5	4.5	5.0	11.1	6.3	25.6	15.9	9.9
Pacific Isles	6.0	6.2	4.1	5.2	7.2	7.4	5.4	4.5
Papua New Guinea	19.0	12.3	14.1	14.1	11.5	9.8	4.9	5.2
Total beef and veal	2 412.1	2 768.3	2 963.3	3 464.1	4 357.3	4 002.6	3 475.3	4 390.2
Live cattle ^b								
Asia								
Indonesia	209.4	18.0	68.5	143.1	171.8	254.0	203.4	207.3
Japan	14.9	11.6	7.8	9.8	12.7	11.2	16.6	14.6
Malaysia	26.3	15.3	29.9	25.7	38.5	45.1	38.9	25.2
Philippines	117.9	87.7	126.7	117.8	58.4	65.8	39.1	30.1
Middle East								
Egypt	19.3	61.6	131.2	129.7	153.8	94.9	5.0	0.0
Israel	0.0	5.7	3.8	9.0	15.4	23.9	22.8	11.9
Jordan	1.3	7.7	15.7	18.1	6.7	2.4	12.9	15.3
Libya	57.7	64.9	13.5	0.0	0.0	0.0	0.0	0.0
Saudi Arabia	0.5	0.0	0.0	0.0	14.9	32.5	9.4	0.0
Total live cattle	453.8	280.3	409.2	471.7	514.4	580.8	376.5	327.7

^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.

164 World cattle numbers, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	million	million	million	million	million	million	million	million
Argentina	51.7	49.2	49.4	49.8	50.2	50.4	50.9	50.8
Australia b	26.7	26.9	26.0	27.6	27.7	27.9	26.7	27.5
Brazil	146.1	144.7	143.9	146.3	150.4	156.3	161.5	165.5
Canada	13.4	13.4	13.2	13.2	13.6	13.8	13.5	14.7
China c	110.3	121.8	124.4	127.0	128.7	128.2	130.8	134.7
European Union d	84.5	83.3	82.9	93.8	91.4	90.3	88.7	87.5
France	20.6	20.0	20.3	20.5	20.5	20.5	19.5	19.3
Germany	15.8	15.2	14.9	14.7	14.6	14.0	13.7	13.4
Italy	7.4	7.2	7.1	7.2	7.2	7.2	6.4	6.7
United Kingdom	11.4	11.5	11.4	11.1	10.6	10.4	10.5	10.5
Japan	4.8	4.7	4.7	4.6	4.5	4.6	4.5	4.5
New Zealand	9.0	9.1	8.9	9.0	9.0	9.3	9.8	9.6
Russian Federation	35.8	31.5	28.6	27.0	25.5	24.5	23.5	22.3
South Africa	14.1	13.6	13.5	13.2	13.5	13.5	13.6	13.5
Ukraine	15.3	12.6	11.7	10.6	9.4	9.4	9.1	7.7
United States	101.7	99.7	99.1	98.2	97.3	96.7	96.1	94.9
Uruguay	10.7	10.6	10.4	10.6	10.4	11.7	12.3	12.6
World	1 332.5	1 331.4	1 334.8	1 345.2	1 359.7	1 328.3	1 335.8	1 375.0

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.

165 World beef and veal production, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	2 975	2 600	2 840	2 880	2 640	2 700	2 800	3 080
Australia	1 939	1 987	1 991	2 053	2 079	2 090	1 998	2 113
Brazil	6 050	6 140	6 270	6 520	6 895	7 240	7 385	7 975
Canada	1 075	1 150	1 238	1 246	1 250	1 294	1 190	1 460
China b	4 409	4 799	5 054	5 328	5 488	5 846	6 305	6 759
Colombia	680	671	651	662	681	710	680	1 460
European Union c	7 889	7 624	7 569	8 224	8 084	8 145	8 061	7 941
France	1 677	1 632	1 609	1 514	1 571	1 640	1 650	1 590
Germany	1 448	1 367	1 374	1 310	1 360	1 316	1 220	1 258
Italy	1 159	1 110	1 164	1 130	1 133	1 060	1 125	1 142
United Kingdom	694	697	678	708	652	692	696	700
Japan	530	530	537	530	458	535	495	513
Mexico	1 795	1 800	1 900	1 900	1 925	1 930	1 950	2 150
New Zealand	664	620	558	580	609	589	660	720
Russian Federation	2 326	2 090	1 900	1 840	1 760	1 740	1 670	1 590
South Africa	591	539	584	630	665	645	613	655
United States	11 714	11 804	12 124	12 298	11 983	12 427	12 039	11 261
Uruguay	468	454	425	440	317	425	450	544
World	55 309	55 158	56 330	56 869	56 086	57 801	58 434	59 153

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports									
Argentina	496	458	303	359	357	168	348	386	623
Australia	1 028	1 189	1 278	1 272	1 329	1 407	1 362	1 246	1 395
Brazil	224	232	306	464	492	748	881	1 175	1 628
Canada	319	382	428	492	523	575	610	384	559
China ^b	103	101	88	57	54	60	44	43	61
European Union ^c	1 101	1 051	769	949	545	502	485	388	358
India	204	215	245	222	365	370	416	465	540
New Zealand	520	530	509	462	505	516	486	558	606
United States	851	969	985	1 094	1 119	1 029	1 110	1 142	209
Uruguay	192	251	218	189	236	145	262	325	410
Total	5 038	5 378	5 129	5 560	5 525	5 520	6 004	6 112	6 389
Imports									
Brazil	181	150	106	54	70	44	78	63	53
Canada	228	244	232	254	263	299	307	274	111
Chinese Taipei	67	85	82	94	83	78	89	98	80
Egypt	136	167	159	218	236	136	162	93	114
European Union ^c	395	459	414	457	368	358	461	463	583
Japan	927	948	982	1 000	1 059	1 002	712	851	647
Korea, Rep. of	221	226	125	242	324	246	430	444	218
Russian Federation	876	1 062	684	838	415	650	719	720	730
United States	940	1 063	1 199	1 303	1 375	1 435	1 460	1 363	1 669
Total	3 971	4 404	3 983	4 460	4 193	4 248	4 418	4 369	4 205

^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.

167 Summary of Japanese beef and veal statistics

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Cattle numbers a									
Beef b	'000	2 851	2 848	2 842	2 823	2 806	2 838	2 804	2 788
Dairy c	'000	1 899	1 860	1 816	1 764	1 725	1 726	1 719	1 688
Total	'000	4 750	4 708	4 658	4 587	4 531	4 564	4 523	4 476
Cattle slaughterings									
Wagyu	'000	603.3	596.2	588.6	576.8	495.7	526.8	461.2	464.1
Dairy	'000	707.9	692.6	708.1	705.4	594.9	719.1	723.4	773.1
Calves	'000	6.9	10.5	9.7	6.4	5.4	4.8	7.8	10.2
Total	'000	1 318.1	1 299.3	1 306.4	1 288.6	1 096.0	1 250.7	1 192.4	1 247.4
Production d									
Wagyu beef	kt	242.0	241.3	240.0	236.2	205.5	217.1	188.5	190.8
Dairy beef	kt	280.1	278.6	289.6	288.1	247.9	312.3	299.5	323.3
Veal	kt	0.6	0.9	0.9	0.6	0.6	0.6	0.8	1.1
Total	kt	522.7	520.7	530.5	524.9	454.0	529.9	488.8	515.2
Imports									
Fresh or chilled beef and veal e									
Australia	kt	186.7	180.7	193.0	200.7	188.3	138.3	150.9	203.6
Canada	kt	2.5	2.4	3.4	5.4	5.9	3.9	2.3	0.0
New Zealand	kt	6.7	5.7	4.0	3.7	3.7	2.6	2.8	3.7
United States	kt	133.4	126.6	133.0	145.6	132.4	89.5	114.1	0.0
Other	kt	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.7
Total	kt	329.3	315.4	333.5	355.5	330.4	234.3	270.1	208.0
Frozen beef and veal e									
Australia	kt	117.0	129.8	121.2	129.3	135.2	92.1	133.1	190.5
Canada	kt	7.9	11.3	14.0	13.4	16.7	15.1	5.2	0.0
New Zealand	kt	16.0	13.2	11.3	10.0	12.7	7.7	14.2	29.8
United States	kt	172.9	193.5	194.5	202.7	178.6	137.0	153.2	0.0
Other	kt	2.2	1.6	2.3	7.9	0.6	0.3	0.6	3.5
Total	kt	316.0	349.4	343.3	363.3	343.7	252.3	306.3	223.8
Total beef and veal ef									
Australia	kt	303.6	310.5	314.2	330.0	323.5	230.4	284.0	394.6
Canada	kt	10.4	13.6	17.4	18.8	22.6	19.1	7.5	0.0
New Zealand	kt	22.6	18.8	15.3	13.8	16.4	10.3	17.0	33.5
United States	kt	306.3	320.1	327.5	348.2	311.0	226.5	267.3	0.0
Other	kt	3.7	2.8	3.6	9.0	1.0	0.5	0.5	5.0
Total	kt	646.6	665.9	678.0	719.8	674.5	486.8	576.3	433.1
Prices									
Wagyu steer g	¥/kg	1 789	1 766	1 720	1 677	1 561	1 462	1 848	2 002
Dairy steer h	¥/kg	890	748	686	836	698	482	689	857

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.

168 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	70.2	0.0	70.3	na	1 127	1 487
1976	1 451	74.8	1.0	75.5	na	1 707	2 123
1977	1 492	77.4	6.6	81.6	1 307	2 371	2 758
1978	1 624	74.3	2.2	114.7	1 712	2 729	3 460
1979	1 563	86.5	6.2	113.8	1 671	2 818	3 858
1980	1 390	93.3	10.6	100.0	1 963	3 577	4 820
1981	1 283	69.2	3.7	93.2	2 903	4 834	6 464
1982	1 526	61.4	4.5	106.5	3 539	5 437	7 432
1983	1 940	71.9	1.0	115.5	3 801	5 927	8 236
1984	2 318	90.8	1.8	106.6	3 577	5 723	8 316
1985	2 533	116.8	8.3	120.3	2 763	4 384	7 054
1986	2 370	150.8	3.6	147.9	2 487	3 875	6 234
1987	1 923	149.2	0.0	151.9	2 536	3 904	6 396
1988	1 589	126.6	14.2	141.5	3 511	5 500	8 276
1989	1 536	90.1	57.1	143.3	4 335	6 243	10 426
1990	1 622	94.9	81.9	177.0	4 811	6 629	11 450
1991	1 773	98.5	129.0	223.3	5 480	7 328	12 884
1992	2 019	99.6	127.3	226.9	6 007	7 634	14 170
1993	2 260	129.6	103.4	233.0	5 385	6 811	14 790
1994	2 393	147.3	122.5	269.8	5 835	7 244	15 438
1995	2 594	154.7	146.5	301.2	6 346	7 914	16 186
1996	2 844	173.7	149.2	322.9	5 696	6 971	16 236
1997	2 735	236.5	134.2	362.0	4 852	5 618	15 074
1998	2 383	264.1	85.4	345.5	4 014	5 438	13 822
1999	1 952	226.9	153.0	392.7	4 976	7 028	14 470
2000	1 590	214.1	190.0	402.4	5 504	7 414	17 418
2001	1 406	162.6	219.7	384.1	6 490	8 284	19 234
2002	1 410	147.4	255.3	402.7	7 854	9 127	29 478
2003	1 480	141.6	248.6	390.2	7 814	9 446	31 300
2004	1 666	144.9	182.9	327.8	7 094	8 703	30 392

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.

169 Australian supply and use of pig and poultry meats

	Unit	1996	1997	1998	1999	2000	2001	2002	2003	2004
Pig meat										
Pig numbers a	'000	2 526	2 555	2 768	2 626	2 511	2 748	2 940	2 658	2 533
Breeding sows and gilts a	'000	293	303	320	309	293	332	356	353	304
Slaughtering	'000	4 840	4 899	5 212	5 037	5 014	5 172	5 603	5 723	5 440
Average slaughter weight b	kg	69.3	70.3	70.8	71.9	72.7	73.2	72.7	73.2	72.6
Production b	kt	335.4	344.2	369.0	362.2	364.4	378.5	407.3	418.9	394.8
Imports bc	kt	14.2	22.6	19.6	48.7	72.0	64.3	91.6	111.2	126.2
Exports bc	kt	11.7	16.5	25.1	45.1	55.5	77.0	91.1	87.1	69.2
Total consumption bd	kt	339.8	349.3	363.8	365.2	380.3	365.9	406.8	442.9	451.9
Consumption per person bc	kg	18.7	19.0	19.5	19.4	19.9	19.0	20.8	22.5	22.7
Closing stocks – pork b	kt	1.0	2.0	1.7	2.4	3.0	3.0	4.0	4.0	4.0
Poultry meat e										
Slaughtering	million	341.8	356.9	372.8	382.1	401.6	397.2	428.2	418.3	435.6
Average dressed weight b	kg	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Production b	kt	525.2	557.4	602.1	613.8	657.5	662.0	736.6	719.3	722.5
Exports b	kt	18.4	17.8	22.9	24.0	23.7	30.6	27.9	27.1	24.6
Total consumption d	kt	506.8	539.6	579.2	589.8	633.9	631.4	708.7	692.3	697.9
Consumption per person	kg	27.9	29.3	31.1	31.3	33.2	32.7	36.3	35.1	35.0

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.

170 Australian pig numbers, by state and territory **a**

	Australian								Australia
	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Capital Territory	
	'000	'000	'000	'000	'000	'000	'000	'000	'000
1992	805	457	568	320	424	45	3	na	2 621
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	2 533
2005	653	545	696	358	274	14	3	na	2 543

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.

171 World pig and poultry meat production in selected countries ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Pig meat								
Australia	344	369	362	364	379	407	419	395
Canada	1 257	1 337	1 550	1 638	1 731	1 854	1 882	1 930
China b	35 963	38 837	40 056	40 314	41 845	43 266	45 186	47 350
Chinese Taipei	1 030	892	822	921	962	935	893	895
Denmark	1 523	1 631	1 642	1 625	1 714	1 759	1 762	1 762
France	2 220	2 313	2 349	2 318	2 315	2 345	2 321	2 290
Germany	3 564	3 834	4 103	3 982	4 074	4 123	4 238	4 366
Netherlands	1 376	1 725	1 711	1 623	1 433	1 377	1 250	1 245
Russian Federation	1 570	1 510	1 490	1 500	1 560	1 630	1 710	1 725
United States	7 835	8 623	8 758	8 597	8 691	8 929	9 056	9 312
Poultry meat								
Australia	557	602	614	658	662	737	719	722
Brazil	4 562	4 605	5 641	6 117	6 732	7 631	7 845	8 634
Canada	892	937	986	1 029	1 076	1 079	1 060	1 067
China b	7 406	8 120	8 550	9 269	9 278	9 558	9 898	9 860
France	2 275	2 324	2 233	2 243	2 269	2 260	2 087	1 975
Italy	1 177	1 154	1 177	1 140	1 156	1 242	1 156	1 128
Japan	1 124	1 097	1 078	1 091	1 074	1 107	1 127	1 124
Russian Federation	212	289	358	387	437	509	560	665
Thailand	900	930	980	1 070	1 230	1 205	1 320	900
United States	14 721	14 891	15 739	16 122	16 523	17 024	17 255	17 925

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.

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports ^b									
Australia	12	17	25	45	55	77	91	87	69
Canada	384	420	433	554	660	728	864	975	972
China c	135	140	143	75	73	139	216	282	383
Chinese Taipei	388	70	28	0	0	0	0	0	0
European Union d	861	949	1 034	1 756	1 522	1 135	1 158	1 234	1 436
United States	440	473	558	582	584	707	731	779	989
Imports ^b									
Australia	14	23	20	49	72	64	92	111	126
Hong Kong, China	136	171	207	217	247	260	275	302	332
Japan	1 010	786	777	919	995	1 068	1 162	1 133	1 302
European Union d	95	62	44	20	19	22	17	30	20
United States	281	288	320	375	438	431	486	538	499

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.

173 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					
1981	12 726	19.4	246.4	188.4	51.0
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	48.0
Lamb					
1981	16 179	16.8	272.5	38.5	234.4
1982	17 127	16.9	290.3	34.3	257.2
1983	16 804	16.9	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	16.9	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	17.3	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

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.

174 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								
1985	51.418	26.471	14.042	17.263	31.574	4.780	0.118	145.497
1986	52.840	26.892	14.311	17.938	33.213	5.083	0.122	150.277
1987	53.726	27.793	14.926	17.645	33.741	5.246	0.105	149.055
1988	56.430	28.254	14.807	17.718	34.219	5.006	0.100	152.346
1989	59.907	29.387	15.184	17.779	37.335	5.196	0.119	161.492
1990	62.947	30.643	17.015	18.748	38.674	5.618	0.130	170.174
1991	60.572	28.789	17.796	17.513	36.707	5.059	0.128	163.238
1992	54.231	26.081	15.338	16.445	34.289	4.499	0.112	148.203
1993	48.906	24.430	13.495	16.009	33.195	4.403	0.106	138.099
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	117.492
1999	40.583	20.944	10.556	13.065	28.378	3.801	0.080	115.377
2000	42.361	22.119	8.974	13.428	25.481	3.261	0.078	118.552
2001	40.966	23.012	9.121	13.125	23.849	3.292	0.096	110.900
2002	38.491	21.350	6.752	13.043	23.063	3.380	0.088	106.200
2003	33.706	20.388	4.815	13.059	23.887	3.299	0.098	99.253
2004	35.227	19.978	4.824	12.917	25.063	3.183	0.095	101.287
2005	35.570	20.525	4.690	12.386	26.149	3.253	0.009	102.663

^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.

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

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Mutton ab									
Canada	kt	1.5	1.6	1.6	2.2	2.4	1.5	1.1	1.6
Chinese Taipei	kt	14.1	12.3	12.0	11.6	12.1	14.7	10.2	13.1
CIS	kt	3.6	5.2	0.6	1.6	1.6	2.3	0.5	1.9
European Union c	kt	10.5	10.9	8.0	8.5	7.6	8.6	5.5	8.4
Japan	kt	15.9	13.0	10.9	11.1	10.4	10.4	6.6	9.0
Korea, Rep. of	kt	2.0	1.4	1.4	1.0	1.0	1.2	0.8	1.0
Malaysia	kt	6.4	5.7	7.2	7.7	7.3	7.1	5.2	6.6
Papua New Guinea	kt	8.3	7.4	7.6	6.4	5.5	5.5	4.6	5.9
Saudi Arabia	kt	19.9	17.9	19.9	20.9	29.8	24.5	22.5	19.5
Singapore	kt	6.9	7.2	7.8	7.6	7.6	6.6	6.2	6.4
South Africa	kt	24.0	25.9	30.6	38.4	24.7	15.7	9.3	12.6
United States	kt	11.8	18.2	17.7	21.5	18.8	20.9	20.1	14.6
Other	kt	32.2	37.1	46.3	47.7	55.5	54.0	31.6	38.6
Total	kt	157.1	163.6	171.7	186.2	184.2	172.7	124.1	139.1
Lamb a									
European Union c	kt	8.6	9.7	11.8	14.5	14.4	14.1	16.4	14.9
Japan	kt	4.2	4.0	4.6	5.1	6.1	5.8	6.0	7.7
Papua New Guinea	kt	11.3	10.3	11.3	14.8	11.9	10.0	9.6	11.6
South Africa	kt	6.6	7.1	7.2	11.1	3.6	1.3	1.6	2.3
United Arab Emirates	kt	4.3	5.7	6.1	7.2	7.2	8.4	7.1	5.8
United States	kt	14.2	15.8	15.8	20.9	28.4	28.8	31.0	31.9
Other	kt	18.2	24.6	28.6	40.4	42.0	39.8	38.1	44.2
Total	kt	67.5	77.1	85.4	113.9	113.6	108.2	109.6	118.5
Live sheep									
Slaughter sheep	'000	4 995	4 895	4 960	5 321	6 699	6 024	4 738	3 394
Middle East	'000	4 913	4 858	4 892	5 282	6 596	5 931	4 634	3 356
Bahrain	'000	381	374	465	405	388	386	411	490
Egypt	'000	55	38	164	349	271	139	16	0
Jordan	'000	657	837	1 068	713	542	583	499	930
Kuwait	'000	1 037	1 434	1 250	1 473	1 540	1 570	1 499	1 260
Oman	'000	654	476	424	531	481	353	259	289
Qatar	'000	362	362	281	308	308	282	181	137
Saudi Arabia	'000	0	0	0	641	2 141	1 873	1 411	0
United Arab Emirate	'000	1 705	1 279	976	817	682	466	225	196
Other	'000	62	58	264	46	242	279	134	53
Singapore	'000	13	18	18	17	13	6	7	9
Other	'000	69	20	51	22	90	87	98	29
Breeding sheep	'000	169	85	65	100	112	39	4	3
Total	'000	5 163	4 980	5 026	5 421	6 812	6 063	4 742	3 397

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.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Mutton a								
Canada	3.0	3.2	3.1	4.6	6.8	5.2	3.6	5.8
Chinese Taipei	34.7	29.1	27.6	26.3	36.9	48.9	32.2	41.9
CIS	5.7	9.2	0.9	3.1	3.7	5.4	1.3	5.8
European Union b	43.6	44.8	28.2	34.1	42.0	41.4	28.1	43.2
Japan	45.1	37.9	32.6	34.0	42.7	51.1	29.9	47.1
Korea, Rep. of	3.3	2.3	2.1	1.7	2.3	3.3	2.2	3.1
Malaysia	14.1	11.6	13.7	16.5	21.7	22.9	15.9	22.6
Papua New Guinea	8.9	8.0	7.5	6.2	7.4	6.6	6.1	5.1
Saudi Arabia	47.7	37.4	36.8	43.9	90.1	77.5	65.0	53.0
Singapore	16.6	16.4	16.5	18.4	23.4	23.2	20.4	22.0
South Africa	34.4	34.6	35.3	46.3	30.9	17.6	11.1	14.1
United States	24.3	40.3	37.1	43.9	56.4	64.7	67.9	48.6
Other	71.4	77.9	84.2	97.1	146.3	152.0	91.7	113.4
Total	352.7	352.5	325.8	376.3	510.6	519.7	375.3	425.9
Lamb								
European Union b	47.2	48.2	52.3	74.3	105.7	89.3	96.9	93.4
Japan	22.5	22.9	25.1	30.7	37.0	40.7	42.3	53.5
Papua New Guinea	14.0	12.0	13.0	16.0	18.0	15.7	14.4	17.3
South Africa	11.6	9.7	10.0	15.3	5.5	1.2	2.1	3.5
United Arab Emirates	13.8	18.1	18.2	24.2	27.4	31.6	29.9	27.0
United States	83.2	97.6	103.2	150.2	219.9	218.2	257.5	259.9
Other	73.2	87.2	96.3	137.0	165.7	169.5	159.7	184.7
Total	265.5	295.6	318.0	447.7	579.1	566.2	602.8	639.3
Live sheep c								
Middle East	184	187	177	204	349	395	330	223
Bahrain	13	13	15	13	20	25	29	33
Egypt	2	1	6	12	14	9	1	0
Jordan	25	32	35	24	28	39	35	58
Kuwait	39	53	47	61	79	101	105	84
Oman	25	18	17	20	26	24	19	20
Qatar	15	17	13	15	16	21	13	10
Saudi Arabia	0	0	0	27	120	127	104	0
United Arab Emirates	63	49	35	29	34	30	16	13
Other	3	2	3	2	5	7	8	3
Total	187	189	180	206	355	402	338	225

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.

177 World sheep numbers, by country ^a

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	million	million	million	million	million	million	million	million	million
Argentina	18.0	17.3	13.7	13.6	13.6	13.5	12.4	12.5	12.5
Australia	121.1	120.2	117.5	115.4	118.6	110.9	106.2	99.3	101.3
China ^b	127.6	114.1	121.0	127.4	131.1	133.2	135.9	143.8	155.7
France	10.6	10.5	10.3	10.2	9.6	9.4	9.3	9.3	9.2
Greece	8.9	8.9	9.0	8.9	9.0	9.0	9.2	8.9	9.0
India	55.3	56.5	57.1	57.6	59.6	60.4	61.1	61.8	62.5
Iran	51.5	52.1	53.2	53.9	53.9	53.9	53.9	53.9	54.0
Iraq	5.3	6.6	6.7	6.8	6.8	6.1	6.2	na	na
Italy	10.7	10.9	11.0	10.9	11.0	8.3	8.1	8.0	8.0
Morocco	14.5	15.3	14.8	16.6	17.3	17.2	16.3	16.7	17.0
New Zealand	48.8	47.0	46.0	45.7	42.3	40.0	39.5	39.3	40.0
Romania	10.4	9.7	8.9	8.4	8.1	7.7	7.3	7.3	7.5
Russian Federation	25.3	20.3	16.5	13.4	12.6	12.6	13.0	13.7	14.7
South Africa	28.9	29.2	29.3	28.7	28.6	28.8	28.9	28.8	29.1
Spain	21.3	24.0	24.9	24.2	24.0	24.4	23.8	23.5	24.0
Turkey	33.8	33.1	30.2	29.4	30.3	28.5	27.0	25.2	25.0
United Kingdom	28.2	30.0	31.1	29.7	42.3	36.7	35.8	35.7	35.5
United States	8.5	8.0	7.8	7.2	7.0	7.0	6.6	6.3	6.1
Uruguay	19.7	18.2	16.5	14.4	13.2	12.1	10.8	10.0	9.5
Total	1 072.6	1 056.5	1 052.8	1 044.2	1 054.9	1 034.5	1 033.4	1 042.4	1 058.6

^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.

178 World mutton and lamb production, by country ^a

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	64	58	57	54	50	50	50	52	52
Australia	565	599	617	629	714	678	634	543	573
China ^b	1 000	1 190	1 239	1 335	1 440	1 540	1 680	1 892	2 201
France	146	141	144	138	133	134	128	129	124
Italy	74	72	73	73	65	62	58	58	56
New Zealand	540	524	547	519	533	562	521	546	509
Romania	66	59	60	54	49	48	51	62	68
Russian Federation	208	178	178	143	119	114	115	114	120
Spain	223	229	250	239	232	236	237	236	233
Ukraine	23	20	17	15	9	8	8	8	8
United Kingdom	382	321	351	361	383	267	307	316	310
United States	122	118	114	113	106	101	101	92	90
Uruguay	64	60	55	51	51	51	31	27	27
Total	7 050	7 170	7 298	7 345	7 554	7 603	7 715	7 928	8 225

^a Carcass weight. ^b Excludes Hong Kong.

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

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Australia ^b								
Mutton	216	216	225	248	240	229	163	185
Lamb	76	86	95	126	126	121	126	138
New Zealand ^c								
Mutton	94	92	83	79	92	82	92	na
Lamb	336	334	325	354	357	339	337	na
Imports								
European Union								
France	159	167	167	170	120	140	145	na
Germany	42	43	41	44	42	38	40	na
United Kingdom	126	116	113	109	93	102	103	na
Saudi Arabia								
Mutton and lamb from								
Australia ^b	31	27	32	32	41	38	30	23
New Zealand ^c	22	21	22	23	17	12	10	na
United States ^d								
	35	47	47	54	61	67	69	73

^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.

180

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Mutton								
Canada	0.5	0.5	0.3	0.2	0.3	0.3	0.4	0.7
European Union ^b	30.1	27.3	27.5	31.4	28.2	31.7	26.0	29.0
Japan	4.0	2.4	2.0	2.5	1.6	1.8	1.7	1.3
Korea, Rep. of	3.3	3.2	1.7	0.0	0.0	5.0	0.1	0.1
Papua New Guinea	2.5	2.7	1.2	1.2	1.4	1.6	0.9	1.7
Russian Federation	0.8	0.0	0.0	0.1	0.1	6.1	0.2	0.6
United States	2.1	1.2	0.8	0.4	1.0	1.2	3.2	1.2
Other	16.5	17.0	16.8	22.9	19.4	21.8	21.7	22.8
Total	59.7	54.4	50.4	58.8	52.0	69.4	57.0	59.2
Lamb								
Canada	4.9	6.6	6.7	9.0	9.5	10.7	9.7	9.2
Germany	25.8	23.2	23.0	26.7	23.9	26.9	20.5	21.4
Japan	12.5	9.4	7.9	8.6	7.9	8.9	11.3	11.0
Korea, Rep. of	1.0	0.7	0.6	0.5	0.5	0.6	1.1	1.2
Jordan	5.3	8.8	9.5	6.3	5.1	5.7	3.2	1.5
Papua New Guinea	16.5	8.8	12.6	9.8	4.9	5.5	7.5	7.7
Saudi Arabia	14.2	15.9	19.3	15.7	11.4	12.8	13.0	14.0
United Kingdom	75.3	68.1	70.6	66.4	61.5	69.3	69.8	68.0
United States	18.3	17.2	17.0	16.5	20.5	23.0	25.0	19.8
Other	108.2	112.5	129.4	142.3	141.3	159.1	133.4	147.9
Total	282.0	271.1	296.5	301.9	286.5	322.4	294.6	301.8

^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.

181 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	112	1.38	155	6	149
1970-71	227	0.90	204	9	195
1971-72	508	0.73	371	103	268
1972-73	430	0.62	268	48	220
1973-74	288	0.89	258	17	241
1974-75	366	0.94	345	48	297
1975-76	276	0.88	243	82	161
1976-77	256	0.94	240	5	235
1977-78	400	1.04	416	8	408
1978-79	498	1.04	520	65	455
1979-80	480	1.01	484	141	343
1980-81	390	1.15	450	6	444
1981-82	404	1.26	509	26	483
1982-83	381	0.92	349	3	346
1983-84	524	1.05	549	20	529
1984-85	704	1.31	925	51	874
1985-86	675	1.29	872	183	689
1986-87	545	1.30	708	125	583
1987-88	624	1.37	856	91	765
1988-89	565	1.48	838	217	621
1989-90	456	1.67	763	172	591
1990-91	595	1.75	1 040	187	853
1991-92	631	1.80	1 136	231	905
1992-93	537	1.61	864	241	623
1993-94	700	1.51	1 055	287	769
1994-95	799	1.15	920	252	668
1995-96	847	1.58	1 342	523	819
1996-97	1 040	1.71	1 776	523	1 253
1997-98	1 291	1.54	1 987	908	1 079
1998-99	2 114	1.47	3 106	1 707	1 399
1999-00	2 657	1.46	3 870	2 445	1 426
2000-01	2 133	1.45	3 094	2 189	905
2001-02	1 870	1.60	2 990	1 920	1 070
2002-03	1 618	0.95	1 532	887	645
2003-04	1 544	1.56	2 409	1 234	1 175
2004-05	1 592	1.66	2 642	1 261	1 381

^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.

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Canola								
Area								
1998-99	'000 ha	371.8	205.0	0.7	536.5	132.4	0.8	1 247.2
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	280.0	245.0	1.0	420.0	194.0	1.3	1 141.3
Yield								
1998-99	t/ha	1.7	1.3	1.1	1.1	1.5	1.4	1.4
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	1.5	1.6	1.0	1.2	1.2	0.8	1.3
Production								
1998-99	kt	623.1	257.4	0.8	614.8	193.1	1.2	1 690.5
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	420.0	395.0	1.0	490.0	226.0	1.0	1 533.0
Cottonseed								
Area								
1998-99	'000 ha	381.7	0.0	179.9	0.0	0.0	0.0	561.5
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
Yield								
1998-99	t/ha	1.8	0.0	1.9	0.0	0.0	0.0	1.8
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
Production								
1998-99	kt	677.5	0.0	346.9	0.0	0.0	0.0	1 024.4
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

Continued

182 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								
1998-99	'000 ha	79.4	0.0	113.3	0.3	1.5	0.0	194.6
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
Yield								
1998-99	t/ha	1.3	0.0	1.0	0.5	0.0	0.0	1.1
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
Production								
1998-99	kt	103.3	0.0	114.9	0.2	0.0	0.0	218.4
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
Peanuts								
Area								
1998-99	'000 ha	0.6	0.0	20.2	0.1	0.0	0.0	21.0
1999-00	'000 ha	0.4	0.0	19.6	0.1	0.0	0.0	20.2
2000-01	'000 ha	0.5	0.0	16.7	0.1	0.0	0.0	17.4
2001-02	'000 ha	0.5	0.0	14.0	0.1	0.0	0.0	14.7
2002-03	'000 ha	0.5	0.0	10.0	0.1	0.0	0.0	10.8
2003-04	'000 ha	0.8	0.0	13.0	0.0	0.0	0.0	14.0
2004-05	'000 ha	0.5	0.0	24.2	0.0	0.0	0.0	25.0
Yield								
1998-99	t/ha	0.8	0.0	1.9	1.6	0.0	0.0	1.8
1999-00	t/ha	2.1	0.0	2.2	1.6	0.0	0.0	2.2
2000-01	t/ha	1.1	0.0	2.1	1.6	0.0	0.0	2.0
2001-02	t/ha	1.3	0.0	2.5	1.6	0.0	0.0	2.5
2002-03	t/ha	1.4	0.0	3.6	2.0	0.0	0.0	3.4
2003-04	t/ha	1.3	0.0	3.2	0.0	0.0	0.0	3.1
2004-05	t/ha	2.0	0.0	1.7	0.0	0.0	0.0	1.7
Production								
1998-99	kt	0.5	0.0	38.0	0.2	0.0	0.0	38.6
1999-00	kt	0.8	0.0	42.6	0.2	0.0	0.0	43.5
2000-01	kt	0.6	0.0	34.3	0.2	0.0	0.0	35.1
2001-02	kt	0.7	0.0	35.7	0.2	0.0	0.0	36.6
2002-03	kt	0.7	0.0	36.1	0.2	0.0	0.0	37.0
2003-04	kt	1.0	0.0	42.0	0.0	0.0	0.0	44.0
2004-05	kt	1.0	0.0	41.8	0.0	0.0	0.0	43.0

Continued

182 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								
1998-99	'000 ha	13.2	11.7	5.9	0.0	3.5	0.0	34.2
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	0.6	1.9	0.0	0.0	1.1	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	10.6	15.0	2.0	1.5	3.0	0.0	32.1
Yield								
1998-99	t/ha	0.5	0.4	0.6	0.0	0.6	0.0	0.5
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	0.3	0.4	0.0	0.0	0.8	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	1.3	0.5	0.8	0.0	1.2	0.0	0.8
Production								
1998-99	kt	6.8	4.9	3.3	0.0	2.0	0.0	17.1
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	13.5	7.1	1.7	0.0	3.7	0.0	26.0
Soybeans								
Area								
1998-99	'000 ha	29.5	1.4	24.2	0.0	0.0	0.0	55.1
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	0.4	10.9	0.0	0.0	0.0	32.4
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
Yield								
1998-99	t/ha	2.0	2.4	1.9	0.0	0.0	0.0	1.9
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	1.7	1.6	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	2.3	1.4	1.9	0.0	0.0	0.0	2.1
Production								
1998-99	kt	57.9	3.3	46.0	0.0	0.0	0.0	107.2
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	39.0	1.7	15.0	0.0	0.0	0.0	55.7

Continued

182 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								
1998-99	'000 ha	876.1	218.6	344.2	536.9	137.4	0.8	2 113.5
1999-00	'000 ha	926.8	319.9	314.3	879.0	216.0	1.1	2 656.8
2000-01	'000 ha	897.6	266.1	295.3	517.4	156.6	0.8	2 133.3
2001-02	'000 ha	875.7	241.4	193.4	394.0	165.3	0.5	1 869.9
2002-03	'000 ha	689.0	263.0	101.7	349.1	214.6	0.5	1 618.1
2003-04	'000 ha	517.9	257.3	156.6	359.5	252.3	0.0	1 544.1
2004-05	'000 ha	499.9	261.7	210.3	421.5	197.0	1.3	1 591.5
Yield								
1998-99	t/ha	1.7	1.2	1.6	1.1	1.4	1.4	1.5
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	1.5
2001-02	t/ha	1.8	1.4	1.9	1.1	1.7	1.8	1.6
2002-03	t/ha	0.9	0.7	1.7	0.9	1.0	1.8	0.9
2003-04	t/ha	1.5	1.5	2.2	1.5	1.4	0.0	1.6
2004-05	t/ha	2.0	1.5	2.4	1.2	1.2	0.8	1.7
Production								
1998-99	kt	1 469.1	265.6	549.9	615.1	195.3	1.2	3 106.2
1999-00	kt	1 664.2	437.6	543.9	963.4	249.4	1.7	3 870.2
2000-01	kt	1 634.8	383.4	507.0	352.7	206.2	1.3	3 094.5
2001-02	kt	1 573.9	349.0	364.6	418.8	273.3	1.0	2 989.6
2002-03	kt	646.3	186.5	175.7	299.2	214.0	0.8	1 531.6
2003-04	kt	778.6	394.0	342.0	527.0	357.8	0.0	2 409.4
2004-05	kt	1 012.3	403.8	494.9	490.0	229.7	1.0	2 642.0

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.

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	590.07	1 319.83	1 892.61	1 479.11	1 303.09	612.30	1 048.78	1 018.56
Cottonseed	296.06	359.94	530.75	657.79	593.64	258.57	166.57	214.35
Linseed	0.06	0.32	0.10	0.01	0.03	0.03	0.02	0.21
Peanuts	3.66	4.75	3.93	2.81	5.10	3.53	10.18	12.27
Safflowerseed	12.01	8.60	6.93	13.62	10.36	2.77	3.62	5.63
Soybeans	3.13	2.53	2.65	11.26	5.42	7.22	3.55	6.88
Sunflowerseed	3.15	11.02	7.65	24.81	1.98	2.25	1.37	3.13
Total a	908.14	1 706.99	2 444.63	2 189.43	1 919.62	886.67	1 234.08	1 261.04
(value, \$m)	344.96	672.95	789.97	709.10	740.72	391.55	540.40	484.12
Oils								
Canola	28.72	56.18	39.00	28.05	31.31	31.38	46.91	47.19
Cottonseed	18.32	1.35	0.31	0.64	2.49	2.05	1.98	2.19
Linseed	0.02	0.03	0.01	0.00	0.30	0.01	0.02	0.01
Palm	2.09	0.67	0.00	0.01	0.00	0.00	0.00	0.00
Peanut	0.44	0.67	0.09	0.16	0.59	0.12	0.52	0.25
Safflowerseed	1.60	1.45	0.37	0.07	0.13	0.00	0.00	0.02
Soybeans	0.12	2.06	0.29	3.15	2.21	1.43	1.74	0.16
Sunflowerseed	4.07	8.32	5.41	6.34	4.73	4.26	1.06	3.52
Olive	0.10	0.24	0.27	0.33	0.31	0.14	0.30	0.63
Total	59.94	72.97	47.83	41.82	49.55	51.36	62.43	62.91
(value, \$m)	64.92	76.60	40.76	39.93	53.54	62.27	66.02	72.35
Oilseed meals								
Canola	0.00	0.18	0.54	1.73	0.00	0.00	0.00	0.00
Cottonseed and sunflowerseed	9.29	30.08	46.83	59.71	31.92	9.15	10.15	6.42
Linseed	0.00	0.00	0.02	0.00	0.74	0.19	0.00	0.01
Soybeans	3.65	2.43	1.74	2.47	1.78	1.54	2.82	7.90
Other b	41.04	115.41	68.64	8.32	1.80	1.38	1.17	5.61
Total	53.98	148.10	117.77	72.22	36.24	12.27	14.13	19.95
(value, \$m)	12.96	422.58	220.23	559.89	10.07	5.59	5.23	9.17

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.

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

	1997-98 kt	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt
Oilseeds								
Canola								
Bangladesh	94.64	126.33	99.36	148.22	151.75	70.12	100.57	67.95
China	132.66	393.79	1 212.02	294.81	335.77	50.08	2.19	39.62
Japan	230.33	293.19	369.96	375.94	395.43	444.40	545.84	495.23
Pakistan	20.89	42.83	56.21	224.32	306.66	38.50	284.28	387.24
Other	111.55	463.69	155.06	435.82	113.48	9.20	115.90	28.53
Total a	590.07	1 319.83	1 892.61	1 479.11	1 303.09	612.30	1 048.78	1 018.56
Cottonseed								
Chinese Taipei	0.58	3.50	3.35	2.45	1.47	0.57	0.42	0.61
Japan	177.08	175.34	175.98	152.57	164.48	133.41	134.12	144.67
Korea, Rep. Of	45.63	55.39	83.14	94.60	88.47	22.72	28.42	56.04
Saudi Arabia	0.00	0.30	2.27	17.00	8.50	0.00	0.00	10.58
United States	58.14	122.65	221.20	386.54	327.68	98.81	1.34	1.00
Other	14.63	2.77	44.82	4.64	3.05	3.05	2.26	1.47
Total a	296.06	359.94	530.75	657.79	593.64	258.57	166.57	214.35
Canola oil								
China	8.73	4.50	0.00	0.00	5.03	5.30	12.58	0.26
Japan	0.00	0.04	5.18	13.84	9.66	10.00	10.02	18.42
New Zealand	1.18	5.21	10.26	9.67	14.51	13.11	12.29	14.19
Other	18.82	46.43	23.56	4.54	2.11	2.96	12.02	14.33
Total	28.72	56.18	39.00	28.05	31.31	31.38	46.91	47.19
Cottonseed and sunflowerseed meal								
Korea, Rep. of	7.84	28.00	43.65	55.62	25.99	6.32	8.16	4.28
New Zealand	0.14	0.07	0.03	0.28	2.15	1.24	0.25	0.43
Other	1.31	2.00	3.14	3.81	3.77	1.59	1.74	1.72
Total	9.29	30.08	46.83	59.71	31.92	9.15	10.15	6.42

a Excludes sesame seed and other oleaginous fruit.

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

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Oilseeds								
Canola	0.16	0.17	0.14	0.09	0.09	0.21	0.23	0.11
Copra	0.02	0.01	0.01	0.00	0.01	0.01	0.00	0.12
Linseed	3.33	0.40	0.14	1.23	1.04	0.56	1.45	1.22
Peanuts	3.84	5.68	3.70	7.41	5.77	28.38	16.42	7.43
Soybeans	47.59	23.32	18.13	0.09	0.31	43.82	39.60	0.62
Sunflowerseed	0.88	0.63	0.76	0.77	0.80	0.73	1.07	1.85
Other a	6.03	5.87	5.89	5.91	6.80	6.51	7.84	7.06
Total	61.84	36.08	28.78	15.50	14.81	80.22	66.62	18.41
(value, \$m)	39.21	28.84	22.54	23.44	20.80	61.45	50.05	26.69
Oils								
Canola	1.54	2.17	3.71	3.52	3.28	10.48	1.27	1.22
Cottonseed	0.11	0.18	0.23	0.42	0.64	0.71	6.91	3.16
Linseed	2.08	2.35	2.68	2.67	2.43	1.90	3.09	3.93
Maize	1.54	1.41	1.65	1.79	2.04	1.90	2.92	3.41
Peanut	0.11	0.36	0.53	1.11	0.35	1.46	2.87	0.94
Safflowerseed and sunflowerseed	14.37	9.53	8.69	12.58	16.64	24.86	31.19	29.71
Soybean	12.24	13.82	8.01	7.88	10.90	10.67	12.58	15.45
Castor	1.87	1.76	1.97	1.15	1.41	1.47	1.11	1.00
Coconut	17.02	16.39	13.40	14.36	12.18	15.23	14.16	11.77
Olive	20.00	22.97	22.53	30.75	24.69	0.02	0.18	0.11
Palm	7.30	7.81	6.60	7.36	8.35	7.97	8.48	10.52
Palm kernel	7.22	6.65	8.47	8.23	11.95	10.33	13.13	12.49
Palm olein	76.72	72.91	79.56	77.24	74.63	82.50	78.66	76.18
Palm stearin	27.99	19.59	25.84	23.40	29.54	22.08	25.94	21.34
Tung	15.40	16.23	33.64	15.20	0.19	0.31	0.25	0.32
Other b	36.68	32.30	33.21	40.63	31.18	217.10	73.35	34.86
Total oils	242.18	226.42	250.70	248.28	230.38	409.00	276.08	226.38
(value, \$m)	267.13	305.51	281.91	282.44	280.32	214.95	224.22	225.64
Oilseed meals								
Soybeans	159.78	176.90	211.86	204.71	258.76	373.66	312.15	377.16
Other c	36.68	32.30	33.21	40.63	31.18	217.10	73.35	34.86
Total	196.46	209.20	245.07	245.34	289.95	590.77	385.49	412.01
(value, \$m)	73.09	59.12	67.76	83.21	105.80	153.82	125.01	113.55

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.

186 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	Exporters ^c				
1970-71	70.2	77.1	78.6	na	3.4	na	18.2	27.2	na
1971-72	73.9	83.3	82.6	4.7	3.6	5.6	18.3	28.4	na
1970-71	70.2	77.1	78.6	na	3.4	na	18.2	27.2	na
1971-72	73.9	83.3	82.6	4.7	3.6	5.6	18.3	28.4	na
1972-73	102.7	109.4	107.6	6.5	3.3	6.0	20.4	28.5	267.0
1973-74	107.9	125.0	120.4	11.0	6.5	9.2	22.0	30.7	260.0
1974-75	107.1	118.2	117.4	10.0	7.6	8.5	19.7	29.3	249.0
1975-76	106.9	128.3	125.6	11.8	10.3	9.4	23.8	30.8	215.0
1976-77	104.8	118.7	124.9	6.1	5.8	4.9	23.6	30.1	288.0
1977-78	115.4	138.1	136.5	8.3	7.3	6.1	26.9	32.3	259.0
1978-79	120.4	145.3	145.5	8.5	8.1	5.9	30.1	33.8	295.0
1979-80	127.8	164.6	156.4	17.6	14.9	11.3	35.2	35.8	278.0
1980-81	125.4	150.7	155.5	12.8	12.2	8.2	30.7	35.0	310.0
1981-82	128.8	165.1	167.0	10.9	10.0	6.5	35.5	36.9	253.0
1982-83	130.2	173.8	171.3	13.4	11.8	7.8	34.6	37.2	260.0
1983-84	130.3	161.1	165.4	9.1	6.6	5.5	32.5	35.3	301.1
1984-85	138.1	186.8	181.7	14.1	11.9	7.8	32.0	38.1	223.0
1985-86	137.0	191.7	187.1	18.8	17.9	10.0	33.8	38.6	210.8
1986-87	133.7	189.8	193.8	14.8	14.8	7.6	36.8	39.4	208.7
1987-88	140.9	204.9	204.6	15.1	11.4	7.4	39.2	40.9	282.3
1988-89	150.6	199.5	202.4	12.2	9.6	6.0	31.8	39.7	292.3
1989-90	151.3	213.6	209.0	16.9	10.1	8.1	36.3	40.3	246.9
1990-91	150.6	213.6	214.0	16.5	11.9	7.7	32.6	40.5	241.4
1991-92	157.0	222.6	224.6	14.4	10.7	6.4	37.4	41.8	237.4
1992-93	156.4	226.4	226.9	14.0	11.0	6.2	38.3	41.6	246.2
1993-94	159.9	227.3	231.1	10.2	8.2	4.4	38.4	41.7	258.8
1994-95	168.1	261.1	257.1	14.2	12.2	5.5	44.2	45.7	247.6
1995-96	174.5	257.7	263.1	8.8	8.3	3.3	45.0	45.7	304.4
1996-97	170.7	261.4	263.8	6.3	6.4	2.4	50.2	45.3	304.2
1997-98	177.7	287.0	275.7	17.6	8.5	6.4	49.6	48.1	257.4
1998-99	185.5	295.0	292.8	19.8	12.8	6.8	51.3	49.7	209.3
1999-00	189.2	304.7	301.4	23.1	11.9	7.7	59.8	50.4	209.8
2000-01	189.0	314.3	311.9	25.6	15.0	8.2	66.8	51.0	200.9
2001-02	192.4	325.5	324.9	20.2	16.2	6.2	62.8	52.3	201.0
2002-03	186.3	330.6	325.4	25.4	21.6	7.8	69.9	49.5	244.8
2003-04	204.2	334.5	336.5	23.3	18.6	6.9	67.0	50.7	320.6
2004-05	221.4	380.1	368.6	34.0	31.2	9.2	74.3	54.1	274.5

^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.

187 World oilseeds production, by country ^a

	1997-98 kt	1998-99 kt	1999-00 kt	2000-01 kt	2001-02 kt	2002-03 kt	2003-04 kt	2004-05 kt
Africa								
South Africa	941	1 522	912	1 143	1 309	870	1 041	1 060
Americas								
Argentina	26 432	27 886	28 025	31 704	34 461	39 616	36 840	43 407
Brazil	33 391	32 331	36 111	41 341	45 012	53 712	53 076	53 718
Canada	9 195	10 490	11 696	10 027	6 756	6 671	9 184	10 810
Paraguay	3 189	3 153	3 114	3 697	3 663	4 637	4 139	3 955
United States	83 095	84 365	82 315	84 891	89 832	83 935	76 599	96 436
Asia								
China	43 410	44 903	45 726	51 132	52 194	52 676	50 847	58 712
India	24 943	25 735	23 022	21 563	24 787	20 187	29 597	29 798
Indonesia	5 067	5 236	5 766	5 873	5 926	6 131	6 623	7 018
Malaysia	2 516	2 813	3 096	3 427	3 342	3 610	3 595	4 068
Pakistan	3 658	3 668	4 396	4 110	3 994	3 759	3 755	5 363
Philippines	2 433	1 390	2 392	2 844	2 193	2 244	2 346	2 296
Turkey	1 962	2 060	2 195	1 863	1 904	2 361	2 062	2 145
Turkmenistan	370	415	420	329	339	275	370	380
Uzbekistan	2 300	2 000	2 150	1 920	2 100	2 000	1 800	2 250
Europe								
European Union ^b	14 970	15 178	20 508	17 217	17 406	16 439	16 439	21 014
Romania	991	1 199	1 591	863	912	1 095	1 610	1 826
Russian Federation	3 182	3 422	4 619	4 405	3 160	4 223	5 435	5 581
Ukraine	2 370	2 369	2 987	3 653	2 460	2 456	4 535	3 562
Oceania								
Australia	1 987	3 106	3 870	3 094	2 990	1 532	2 409	2 642
Other countries	20 601	21 785	19 833	19 188	20 736	22 124	22 237	24 031
Total	287 003	295 026	304 744	314 284	325 476	330 553	334 539	380 072

^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.

188 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	125 033	25 742
1996-97	1 116	6 053	3 373	3 369	5 211	29 059	31 489	2 821	132 349	23 800
1997-98	1 181	5 412	34 370	2 371	5 050	27 561	33 161	2 652	158 191	23 258
1998-99	1 168	4 391	32 592	2 828	5 624	29 951	35 812	2 617	160 045	26 611
1999-00	1 261	5 434	33 060	2 868	6 418	29 417	42 483	2 704	160 669	27 263
2000-01	1 353	5 767	33 585	2 359	7 038	31 426	37 408	2 870	175 878	23 182
2001-02	1 043	5 213	36 763	2 159	7 203	33 809	36 030	3 236	185 089	21 369
2002-03	959	5 110	32 958	2 090	7 777	30 816	32 902	3 011	197 033	23 957
2003-04	1 114	5 371	35 827	2 262	8 451	32 611	39 342	3 250	186 257	26 680
2004-05	1 330	5 385	45 545	2 043	9 286	33 142	46 518	3 210	213 340	25 771

^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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola	4.30	7.04	8.17	7.02	4.98	4.53	5.06	4.88
China	0.29	2.20	3.68	2.36	0.78	0.05	0.42	0.32
European Union b	0.51	0.96	0.09	0.54	0.20	0.06	0.17	0.17
Japan	2.09	2.17	2.23	2.18	2.08	2.11	2.28	2.20
Copra	0.21	0.29	0.28	0.16	0.11	0.07	0.09	0.08
European Union b	0.11	0.10	0.10	0.06	0.05	0.04	0.04	0.03
Linseed	0.91	0.92	0.71	0.76	0.79	0.78	0.83	0.64
European Union c	0.57	0.58	0.42	0.59	0.62	0.60	0.62	0.49
Japan	0.08	0.08	0.06	0.05	0.05	0.02	0.02	0.02
Soybeans	38.56	38.91	45.89	53.16	54.45	62.92	54.25	63.85
China	2.94	3.85	10.10	13.25	10.39	21.42	16.93	25.00
European Union b	15.14	14.86	14.13	17.53	18.54	16.87	14.64	15.30
Japan	4.87	4.81	4.91	4.77	5.02	5.09	4.69	4.35
Mexico	3.48	3.76	3.95	4.38	4.51	4.23	3.80	3.50
Sunflowerseed	3.16	3.74	3.67	2.24	1.22	1.71	2.58	1.52
Israel	0.01	0.03	0.02	0.01	0.01	0.01	0.02	0.16
European Union b	2.11	2.76	2.02	1.72	0.87	1.00	1.44	0.71
Mexico	0.06	0.04	0.01	0.03	0.01	0.10	0.04	0.03
Turkey	0.58	0.60	0.44	0.31	0.17	0.23	0.66	0.53
Other oilseeds d	2.16	2.28	1.89	2.97	3.10	2.04	2.46	3.84
Total	49.30	53.18	60.61	66.31	64.66	72.05	65.26	74.82
Exports								
Canola	4.26	6.84	8.21	7.17	4.92	4.11	5.48	5.17
Australia	0.59	1.32	1.89	1.48	1.30	0.61	1.05	1.02
Canada	2.96	3.88	3.90	4.84	2.67	2.40	3.76	3.45
Copra	0.26	0.23	0.25	0.14	0.14	0.12	0.12	0.12
Papua New Guinea	0.10	0.06	0.09	0.02	0.03	0.02	0.01	0.02
Philippines	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.00
Linseed	0.89	0.93	0.72	0.79	0.76	0.79	0.81	0.64
Canada	0.84	0.89	0.67	0.72	0.69	0.64	0.71	0.53
Soybeans	39.68	38.01	45.52	53.74	53.40	61.18	55.86	64.27
Argentina	3.23	3.23	4.13	7.42	6.01	8.71	6.71	9.00
Brazil	8.76	8.93	11.10	15.47	15.00	19.73	19.82	20.39
United States	23.76	21.90	26.54	27.10	28.95	28.42	24.13	29.80
Sunflowerseed	2.96	3.76	2.72	2.60	1.32	1.82	2.74	1.71
Argentina	0.45	0.91	0.28	0.08	0.36	0.21	0.05	0.13
Ukraine	0.79	0.88	0.45	1.02	0.10	0.34	0.95	0.05
United States	0.19	0.26	0.21	0.20	0.24	0.17	0.17	0.15
Other oilseeds d	1.56	1.52	2.33	2.34	2.21	1.92	2.01	2.33
Total	49.60	51.28	59.75	66.78	62.75	69.94	67.02	74.25

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Copra meal	0.91	0.51	0.83	1.12	0.78	0.69	0.68	0.67
European Union b	0.53	0.29	0.49	0.66	0.40	0.28	0.14	0.13
Korea, Rep. of	0.35	0.19	0.31	0.43	0.35	0.37	0.40	0.40
Fish meal	2.25	2.76	3.73	3.41	3.18	2.86	3.12	3.29
China	0.45	0.64	1.19	0.90	0.96	0.80	0.61	1.30
Chinese Taipei	0.17	0.29	0.30	0.29	0.24	0.24	0.24	0.24
European Union b	0.67	0.67	0.88	0.74	0.75	0.75	0.59	0.58
Peanut meal	0.39	0.27	0.25	0.25	0.28	0.93	0.23	0.13
European Union b	0.18	0.18	0.17	0.18	0.14	0.06	0.03	0.03
Thailand	0.12	0.05	0.05	0.05	0.08	0.03	0.04	0.02
Soybean meal	33.99	35.70	34.82	35.95	40.45	42.05	44.68	45.75
European Union b	13.64	16.43	17.81	17.50	19.69	20.36	21.91	22.75
Indonesia	0.70	0.83	1.14	1.62	1.25	1.50	1.55	1.53
Philippines	1.05	0.86	0.97	1.11	1.59	1.43	1.20	1.78
Korea, Rep. of	0.90	1.10	1.09	1.42	1.52	1.53	1.31	1.50
Other meals c	7.77	7.78	7.85	7.32	6.81	6.75	9.05	9.21
Total	45.31	47.02	47.48	48.05	51.51	53.28	57.76	59.05
Exports								
Fish meal	2.19	3.06	3.64	3.43	3.16	2.85	3.11	3.30
European Union b	0.28	0.29	0.21	0.18	0.23	0.17	0.20	0.20
South America	1.27	2.14	2.83	2.63	2.18	2.03	2.25	2.43
Peanut meal	0.46	0.33	0.26	0.27	0.32	0.09	0.32	0.14
India	0.22	0.05	0.01	0.02	0.11	0.02	0.25	0.05
Senegal	0.05	0.09	0.13	0.13	0.09	0.04	0.02	0.02
Sudan	0.07	0.07	0.07	0.02	0.02	0.00	0.05	0.01
Soybean meal	33.35	35.53	34.70	36.10	41.50	42.64	45.37	46.31
Argentina	9.85	13.40	13.75	13.60	16.24	18.04	18.95	19.79
Brazil	9.59	9.83	9.93	10.68	11.86	13.61	14.76	14.63
European Union b	1.24	1.28	0.21	0.27	0.33	0.34	0.39	0.36
United States	8.72	6.98	6.91	7.34	7.27	5.73	4.69	6.62
Other meals d	8.99	8.48	8.89	7.99	7.76	8.08	9.53	9.81
Total	44.99	47.40	47.48	47.79	52.74	53.66	58.33	59.56

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Canola oil	2.01	1.62	1.74	1.23	1.10	0.95	1.27	1.14
European Union b	0.01	0.01	0.00	0.00	0.00	0.01	0.03	0.30
India	0.07	0.24	0.16	0.05	0.01	0.05	0.00	0.00
Coconut oil	1.78	1.24	1.53	1.74	1.80	1.83	1.67	1.69
European Union b	0.78	0.52	0.76	0.79	0.79	0.81	0.70	0.73
United States	0.65	0.36	0.42	0.51	0.49	0.39	0.38	0.34
Palm oil	10.34	11.91	13.01	16.34	17.09	19.77	20.98	23.66
European Union b	2.18	2.26	2.07	2.85	2.98	3.01	3.30	4.10
India	1.53	2.90	3.30	4.00	3.40	3.95	3.55	3.75
Pakistan	1.12	0.98	1.04	1.30	1.25	1.37	1.30	1.40
Singapore	0.25	0.29	0.43	0.29	0.27	0.31	0.28	0.30
Soybean oil	6.18	7.27	6.28	7.13	8.02	8.51	8.35	9.16
China	1.65	1.04	0.68	0.36	0.55	1.71	2.73	1.80
European Union b	0.01	0.03	0.08	0.04	0.06	0.04	0.04	0.09
India	0.24	0.83	0.79	1.40	1.55	1.26	0.76	1.90
Russian Federation	0.09	0.20	0.23	0.46	0.59	0.18	0.01	0.08
Sunflowerseed oil	2.69	2.92	2.51	2.06	1.82	2.01	2.01	2.14
European Union b	0.18	0.21	0.17	0.27	0.69	0.71	0.56	0.74
Other vegetable oils c	1.72	1.90	1.77	1.95	2.01	2.22	2.47	2.47
Total	24.72	26.86	26.84	30.45	31.84	35.29	36.75	40.25
Exports								
Canola oil	2.00	1.78	1.74	1.14	1.05	0.91	1.25	1.31
Canada	0.89	0.76	0.78	0.72	0.58	0.54	0.92	0.93
European Union b	0.75	0.77	0.71	0.21	0.28	0.25	0.14	0.20
Coconut oil	2.04	1.10	1.97	1.72	1.77	1.83	1.71	1.73
Philippines	1.39	0.60	1.15	1.20	1.07	1.06	1.06	1.00
Cottonseed oil	0.25	0.16	0.17	0.19	0.18	0.13	0.13	0.10
United States	0.09	0.05	0.06	0.06	0.07	0.05	0.05	0.03
Palm oil	10.79	12.36	14.00	16.63	17.78	19.89	21.39	24.33
Indonesia	2.36	3.06	3.87	4.78	5.08	6.60	7.86	9.20
Malaysia	7.42	8.10	8.85	10.48	10.50	11.65	11.71	13.30
Soybean oil	6.55	7.47	6.44	7.17	8.44	9.39	8.98	9.31
Argentina	2.10	3.14	3.04	3.21	3.73	4.34	4.41	4.73
Brazil	1.19	1.38	1.15	1.53	1.78	2.27	2.72	2.45
European Union b	1.04	1.05	0.95	0.89	0.91	0.73	0.57	0.68
United States	1.40	1.08	0.62	0.64	1.14	1.03	0.43	0.64
Sunflowerseed oil	2.88	3.10	2.99	2.26	1.89	2.24	2.37	2.24
Argentina	1.51	1.84	1.63	1.00	1.16	0.90	0.91	0.99
European Union b	0.33	0.24	0.21	0.17	0.03	0.08	0.15	0.18
Other vegetable oils c	1.70	1.71	1.74	1.94	2.13	2.07	2.52	2.61
Total	26.20	27.67	29.05	31.05	33.24	36.46	38.35	41.63

^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 Cottonseed, olive, palm kernel and peanut.

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

192 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	200.2	174.3	412.0
2002-03	284.0	420.0	242.8	191.0	537.0
2003-04	317.0	481.0	322.6	258.0	633.0
2004-05	262.0	392.0	275.3	212.0	545.0

^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.

193 Summary of Australian statistics for pulses

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Lupins									
Area	'000 ha	1 424.0	1 407.0	1 347.0	1 180.0	1 139.0	1 024.5	851.0	663.3
Yield	t/ha	1.1	1.2	1.5	0.9	1.1	0.7	1.4	1.3
Production	kt	1 561.0	1 696.0	1 968.0	1 055.0	1 215.0	725.5	1 180.0	891.0
Exports a	kt	971.5	969.5	1 439.3	714.4	414.2	207.5	645.6	342.0
Value of exports	\$m	192.7	154.9	234.9	165.9	108.9	57.3	147.7	71.4
Average unit value	\$/t	195.7	142.7	145.4	205.3	250.0	291.5	235.7	191.9
Gross value of production	\$m	305.5	242.0	286.1	216.6	303.8	211.5	278.1	171.0
Field peas									
Area	'000 ha	366.5	370.0	423.0	397.0	337.0	380.0	354.0	320.5
Yield	t/ha	0.9	1.0	1.2	1.1	1.5	0.5	1.4	1.0
Production	kt	315.7	370.2	496.1	456.0	512.0	178.0	487.0	320.8
Exports ab	kt	203.8	207.2	307.3	387.0	459.1	107.6	209.3	116.1
Value of exports b	\$m	66.9	62.6	89.8	111.7	156.9	43.0	55.6	33.4
Average unit value	\$/t	271.8	246.4	214.0	218.6	287.8	343.8	231.6	229.8
Gross value of production	\$m	85.8	91.2	106.1	99.7	147.3	61.2	112.8	73.7
Chickpeas									
Area	'000 ha	273.0	308.5	218.0	261.5	195.0	201.0	151.5	113.3
Yield	t/ha	0.7	0.6	1.1	0.6	1.3	0.7	1.2	1.0
Production	kt	198.6	187.6	229.9	162.4	258.0	136.0	178.0	115.6
Exports a	kt	255.9	109.4	217.5	217.8	278.0	88.5	163.8	151.2
Value of exports	\$m	118.0	50.1	100.8	112.6	166.9	52.4	70.6	65.3
Average unit value	\$/t	375.3	382.8	339.5	463.1	504.5	477.8	326.7	310.3
Gross value of production	\$m	74.6	71.8	78.1	75.2	130.2	65.0	58.2	35.9
Total legumes c									
Area	'000 ha	2 304.4	2 387.8	2 244.8	2 169.8	1 928.0	1 869.3	1 569.1	1 370.8
Yield	t/ha	1.0	1.1	1.3	1.0	1.2	0.7	1.4	1.2
Production	kt	2 293.9	2 548.5	3 015.0	2 078.3	2 408.0	1 229.6	2 222.2	1 586.1
Exports ad	kt	1 549.0	1 474.7	2 334.1	1 760.8	1 720.2	740.0	1 396.1	833.7
Value of exports ad	\$m	438.1	342.8	601.3	636.1	728.0	290.7	440.2	291.0
Average unit value	\$/t	236.8	200.9	204.3	280.4	334.5	321.2	257.8	248.7
Gross value of production	\$m	543.3	512.0	615.9	582.8	805.5	395.0	572.8	394.5

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; ABARE, *Australian Crop Report*, Canberra.

194 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							
1998-99	'000 ha	106.0	42.0	0.0	1 180.0	79.0	1 407.0
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	45.0	25.3	0.0	530.0	63.0	663.3
Yield							
1998-99	t/ha	1.65	1.10	0.00	1.16	1.29	1.21
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	1.44	1.03	0.00	1.42	0.79	1.34
Production							
1998-99	kt	175.0	46.0	0.0	1 372.0	102.0	1 696.0
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	65.0	26.0	0.0	750.0	50.0	891.0
Field peas							
Area							
1998-99	'000 ha	24.0	149.0	2.0	49.0	145.0	370.0
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	32.0	83.0	0.0	81.0	124.5	320.5
Yield							
1998-99	t/ha	1.18	0.62	0.00	0.82	1.43	1.00
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	1.16	0.75	0.00	1.25	0.97	1.00
Production							
1998-99	kt	28.2	93.0	0.0	40.0	208.0	370.2
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	37.0	62.0	0.0	101.0	120.8	320.8

Continued

194 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							
1998-99	'000 ha	74.7	125.9	41.5	50.9	15.5	308.5
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
Yield							
1998-99	t/ha	0.71	0.35	0.82	0.84	0.87	0.61
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
Production							
1998-99	kt	52.8	44.6	33.8	42.9	13.4	187.6
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
Faba beans							
Area							
1998-99	'000 ha	25.6	42.0	4.1	18.0	45.7	135.3
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
Yield							
1998-99	t/ha	1.03	1.44	0.68	0.88	1.95	1.44
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
Production							
1998-99	kt	26.2	60.3	2.8	15.8	89.0	194.3
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

Continued

194 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							
1998-99	'000 ha	32.8	0.0	69.6	0.0	0.0	102.3
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
Yield							
1998-99	t/ha	0.67	0.00	0.81	0.00	0.00	0.76
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
Production							
1998-99	kt	21.9	0.0	56.3	0.0	0.0	78.1
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
Total pulses ^b							
Area							
1998-99	'000 ha	263.5	379.3	117.1	1 299.7	327.2	2 387.8
1999-00	'000 ha	265.1	306.9	74.2	1 263.7	333.9	2 244.8
2000-01	'000 ha	317.6	266.0	127.9	1 149.4	307.6	2 169.8
2001-02	'000 ha	293.0	239.0	71.0	1 022.0	302.0	1 928.0
2002-03	'000 ha	227.0	231.0	135.0	879.2	332.5	1 869.3
2003-04	'000 ha	185.5	196.0	102.0	745.5	339.0	1 569.1
2004-05	'000 ha	207.0	174.8	66.0	623.5	299.8	1 370.8
Yield							
1998-99	t/ha	1.16	0.65	0.79	1.13	1.31	1.07
1999-00	t/ha	1.54	1.22	0.93	1.40	1.17	1.34
2000-01	t/ha	0.99	1.27	0.69	0.74	1.57	0.96
2001-02	t/ha	1.33	1.35	1.21	0.99	1.98	1.25
2002-03	t/ha	0.54	0.16	0.76	0.70	0.91	0.66
2003-04	t/ha	1.00	1.26	1.16	1.46	1.57	1.42
2004-05	t/ha	1.36	0.66	0.79	1.39	0.91	1.16
Production							
1998-99	kt	304.4	248.2	92.9	1 472.3	428.5	2 548.5
1999-00	kt	408.9	373.6	69.1	1 771.0	391.3	3 015.0
2000-01	kt	313.5	337.8	88.7	853.8	482.8	2 078.3
2001-02	kt	390.5	322.5	86.0	1 008.0	597.0	2 408.0
2002-03	kt	123.2	37.3	102.9	614.5	301.7	1 229.6
2003-04	kt	185.0	246.0	118.3	1 087.0	531.0	2 222.2
2004-05	kt	281.7	116.0	52.2	864.0	271.9	1 586.1

^a Includes data for Tasmania and the Northern Territory. ^b Lupins, field peas, chickpeas, faba beans, mung beans, navy 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; ABARE, *Australian Crop Report*, Canberra.

195 World pulses production, by region and country

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Africa								
Burundi	311	313	262	219	284	280	280	256
Egypt	536	587	379	425	516	492	491	487
Ethiopia	863	787	778	996	1 160	1 088	869	1 044
Nigeria	1 959	2 105	2 158	2 200	2 222	2 224	2 278	2 367
Uganda	349	520	561	585	673	700	646	711
Americas								
Brazil	2 864	2 200	2 841	3 058	2 466	3 082	3 328	3 018
Canada	2 320	3 066	3 454	4 443	3 366	2 292	3 065	4 580
Mexico	1 318	1 459	1 364	1 230	1 495	1 893	1 752	1 752
United States	1 744	1 780	1 864	1 533	1 224	1 700	1 406	1 568
Asia								
China	4 036	4 865	4 704	4 696	5 122	5 915	5 891	4 929
India	14 119	12 999	14 959	13 349	11 221	13 117	11 680	14 500
Myanmar	1 298	1 430	1 545	1 665	2 044	2 344	2 411	2 448
Pakistan	992	1 162	1 089	935	770	763	1 073	953
Thailand	248	276	301	282	294	274	302	297
Europe								
Denmark	387	388	192	138	113	150	125	96
France	3 121	3 310	2 715	2 066	1 877	2 035	1 945	2 083
Poland	260	289	317	264	211	229	238	171
Russian Federation	1 583	889	856	1 173	1 796	1 797	1 601	1 684
Ukraine	1 079	747	631	652	827	810	571	739
United Kingdom	748	702	750	794	957	924	934	968
Middle East								
Turkey	1 700	1 599	1 360	1 316	1 455	1 640	1 558	1 638
Oceania								
Australia a	2 509	2 294	2 548	3 015	2 078	2 408	1 230	2 222
Total b	54 785	55 957	57 008	54 704	54 197	56 984	56 748	60 453

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.

196 Volume of world pulses trade, by region and country

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt
Imports							
Africa							
Algeria	135.2	146.5	142.5	160.5	174.7	167.2	161.7
Egypt	123.2	166.6	327.5	263.9	370.8	413.7	393.0
South Africa	80.7	61.8	59.8	62.0	45.9	69.9	112.9
Americas							
Brazil	196.5	254.6	134.7	120.8	169.8	115.7	137.6
Colombia	148.3	135.8	132.0	174.7	177.6	115.2	119.9
Cuba	181.4	155.1	219.3	119.8	169.8	114.3	174.8
Mexico	129.8	245.2	168.4	133.5	176.8	150.6	129.4
United States	130.0	120.8	201.5	210.8	213.1	255.1	249.9
Venezuela	92.6	100.2	101.1	108.2	114.8	93.2	86.9
Asia							
China	187.1	167.5	126.7	190.2	235.3	195.9	138.7
Hong Kong, China	17.0	17.9	17.6	14.5	11.7	12.8	12.3
India	1 084.4	628.8	269.3	352.5	2 321.9	2 165.3	1 954.2
Japan	173.2	158.2	171.3	170.0	163.4	157.6	158.9
Malaysia	85.1	55.2	66.8	62.0	62.1	64.0	68.9
Singapore	57.5	55.5	37.7	34.6	47.1	66.2	23.9
Europe							
France	114.4	112.8	110.3	161.5	144.6	119.0	113.1
Germany	202.6	184.4	209.9	138.5	107.9	80.7	80.8
Italy	379.6	407.2	417.9	436.5	420.7	429.3	436.9
Netherlands	450.7	594.2	584.7	330.3	228.0	194.3	324.0
Spain	636.3	784.1	776.7	850.2	767.7	431.8	419.3
United Kingdom	176.5	166.6	175.6	160.3	166.2	182.3	184.8
Middle East							
United Arab Emirates	116.6	60.9	50.6	36.9	47.9	140.3	79.0
Total a	7 152.6	7 101.3	7 094.4	7 320.4	9 434.1	8 744.7	8 682.9

Continued

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

	1997	1998	1999	2000	2001	2002	2003
	kt	kt	kt	kt	kt	kt	kt
Exports							
Americas							
Argentina	310.7	321.1	281.7	283.4	276.1	253.5	230.0
Canada	1 304.6	1 688.7	2 096.6	2 695.0	2 865.9	1 413.4	1 822.2
Chile	21.8	20.8	12.6	13.4	13.9	12.3	12.2
Mexico	106.3	117.8	165.1	167.4	212.1	155.6	158.6
United States	539.1	713.3	615.1	569.3	581.8	552.1	562.1
Asia							
China	594.3	472.9	811.2	572.1	719.2	860.8	1 041.5
Burma	768.9	621.5	560.9	831.3	1 034.8	1 100.8	406.0
Singapore	46.2	46.5	26.5	23.3	37.3	54.7	11.5
Thailand	33.0	32.6	45.5	48.6	34.2	41.9	37.2
Europe							
Denmark	131.5	80.5	85.9	46.9	43.6	77.4	33.5
France	846.1	1 122.9	1 238.7	819.5	633.2	986.0	747.2
Hungary	16.0	20.0	22.8	10.7	8.3	11.4	10.9
Netherlands	80.4	104.4	93.6	80.3	50.7	61.1	52.6
United Kingdom	195.1	185.5	227.6	252.5	165.5	303.3	498.0
Middle East							
Turkey	489.8	354.5	233.3	163.3	360.4	244.6	449.5
Oceania							
Australia b	1 667.9	1 549.0	1 474.7	2 334.1	1 760.8	1 720.2	740.0
New Zealand	34.3	23.9	34.7	24.8	23.6	18.9	22.2
Total a	7 505.3	7 463.7	8 281.5	8 620.2	9 367.7	8 780.4	7 792.2

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.

197 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	106.1	6.5	687.5	117.1	464.6	398.2	58.6
1986-87	95.9	5.7	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	8.3	1 100.7	262.7	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	150.0	7.9	1 192.0	274.2	584.7	554.7	144.6
2002-03	46.0	9.5	438.0	348.2	246.4	498.7	148.1
2003-04	66.0	8.4	553.0	325.1	131.9	623.2	152.1
2004-05	50.0	6.1	344.5	356.6	65.2	721.2	156.1

^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; Rice Marketing Board for the State of New South Wales, *Annual Report*, Leeton; ABARE.

198 Australian rice trade and payments to growers

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Exports a									
Quantity	kt	681	582	672	602	585	246	132	65
Total export value b	\$m	397	388	414	383	324	123	82	47
Imports ac									
Quantity	kt	38	39	48	50	55	61	80	91
Total import value	\$m	33	34	38	44	43	46	56	59
Indicator price									
Thai white rice d	US\$/t	302.25	283.75	230.58	184.17	191.67	199.42	220.33	278.33
Exchange rate	US\$/A\$	0.68	0.63	0.63	0.54	0.52	0.58	0.71	0.75
Australian price e	A\$/t	444.98	453.49	366.01	341.68	365.78	343.82	310.33	371.11
Average returns to growers f									
New South Wales	\$/t	225.6	259.4	263.9	213.2	274.2	202.1	260.0	279.5

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; ABARE.

199 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	368	366	118	32	20	362.42
1996-97	150	381	376	121	32	28	337.83
1997-98	151	387	377	128	34	25	302.25
1998-99	153	395	387	135	35	23	283.75
1999-00	155	409	395	147	37	23	230.58
2000-01	151	399	392	151	38	24	184.17
2001-02	150	399	409	140	34	28	191.67
2002-03	146	377	404	111	27	28	199.42
2003-04	148	391	412	87	21	27	220.33
2004-05	152	401	413	73	18	27	278.33

^a Based on US Department of Agriculture data. ^b Milled. ^c Closing stocks data are based on an aggregate of different local marketing years and should not be taken as representing world stock levels at a particular point in time. Stocks data do not include some major stockholders – for example, China and Burma – for which official information is not available. ^d Calendar year basis, 1960-61 = 1961; includes intra-EU trade. ^e Thai white rice, 100 per cent, 2nd grade/grade B, fob Bangkok (August–July basis). From 1960-61 to 1983-84, prices are quoted from Thailand Board of Trade. From 1984-85, prices are nominal quotes from the US Department of Agriculture. ^f August–March average. ^g January–July average.

Sources: US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; US Department of Agriculture, *Rice Market News*, Arkansas; US Department of Agriculture, Rice Outlook, (<http://usda.mannlib.cornell.edu/reports/erssor/field/rcs-bb/>); ABARE.

200 World rice production, by country or region ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	1.3	1.4	1.1	1.6	1.2	0.4	0.6	0.3
Bangladesh	28.3	29.8	34.6	37.6	36.5	37.8	39.2	38.9
Brazil	8.5	11.6	11.4	10.2	10.4	10.4	12.8	13.2
China	200.7	198.7	198.5	187.9	177.6	174.5	160.7	179.6
European Union ^b	2.7	2.7	2.7	2.5	2.6	2.8	2.8	3.0
India	123.8	129.1	134.5	127.5	140.0	107.7	132.4	128.0
Indonesia	49.2	50.9	51.9	51.5	51.1	51.8	53.6	53.1
Japan	12.5	11.2	11.5	11.9	11.3	11.1	9.7	10.9
Korea, Rep. of	7.4	6.8	7.1	7.2	7.4	6.7	6.0	6.7
Myanmar	15.3	16.0	17.0	18.6	18.0	18.6	18.5	16.5
Pakistan	6.5	7.0	7.7	7.2	5.8	6.7	7.3	7.4
Philippines	10.0	10.3	12.0	12.5	13.0	13.0	14.2	14.5
Thailand	23.5	23.6	25.0	25.8	26.5	26.1	27.3	25.8
United States	8.3	8.4	9.3	8.7	9.8	9.6	9.1	10.5
Viet Nam	28.9	30.5	31.7	31.0	31.9	32.6	33.5	34.3
World	574.2	586.3	608.0	593.1	593.6	561.7	583.3	602.6

^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.

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Volume of world rice trade, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Bangladesh	2.52	1.22	0.64	0.40	0.31	1.11	0.80	0.80
Brazil	1.56	0.78	0.57	0.67	0.55	1.06	0.76	0.50
China	0.26	0.18	0.28	0.27	0.30	0.26	1.00	0.50
European Union ^b	0.79	0.78	1.10	1.19	1.17	0.95	1.00	1.05
India	0.01	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Indonesia	5.77	3.73	1.50	1.50	3.50	2.75	0.65	0.90
Iran	0.84	1.31	1.10	0.77	0.96	0.90	0.95	0.95
Iraq	0.63	0.78	1.27	0.96	1.18	0.67	0.89	1.00
Japan	0.47	0.63	0.66	0.68	0.62	0.65	0.70	0.65
Malaysia	0.63	0.62	0.60	0.63	0.48	0.50	0.70	0.65
Nigeria	0.90	0.95	1.25	1.91	1.90	1.45	1.37	1.60
Philippines	2.19	1.00	0.90	1.18	1.25	1.30	1.10	1.90
Russian Federation	0.22	0.58	0.40	0.25	0.41	0.39	0.35	0.35
Saudi Arabia	0.78	0.75	0.99	1.05	0.94	1.15	1.50	1.25
World ^c	27.65	24.82	22.76	22.76	24.41	27.81	27.55	27.12
Exports								
Australia	0.66	0.56	0.67	0.63	0.63	0.33	0.15	0.06
China	3.73	2.71	2.95	2.95	1.87	1.96	2.58	0.88
European Union ^b	0.35	0.35	0.31	0.27	0.36	0.22	0.19	0.18
India	4.67	2.75	1.45	1.94	6.65	4.42	3.17	4.50
Myanmar	0.09	0.06	0.16	0.67	1.00	0.39	0.13	0.15
Pakistan	1.99	1.84	2.06	2.03	2.42	1.60	1.96	1.99
Thailand	6.37	6.68	6.55	6.55	7.52	7.25	7.55	10.14
United States	3.17	2.64	2.85	2.85	2.54	3.30	3.83	3.09
Viet Nam	3.78	4.56	3.37	3.37	3.53	3.25	4.00	4.30
World ^c	27.65	24.82	22.76	22.76	24.41	27.81	27.55	27.12

^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.

202 US rice supply and disposal ^a

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Area harvested	million ha	1.26	1.32	1.42	1.23	1.34	1.30	1.21	1.35
Yield	t/ha	6.61	6.35	6.58	7.04	7.28	7.36	7.50	7.76
Opening stocks ^b	Mt	0.87	0.88	0.69	0.87	0.89	1.22	0.83	0.76
Production ^b	Mt	5.75	5.80	6.50	5.94	6.71	6.54	6.52	7.41
Total supply ^c	Mt	6.91	7.01	7.52	7.16	8.02	8.22	7.73	8.59
Exports	Mt	2.76	2.73	2.80	2.64	4.31	5.58	4.70	5.00
Long grain	Mt	2.26	2.25	2.24	2.05	3.36	4.45	3.66	3.81
Medium–short grain	Mt	0.50	0.48	0.57	0.59	0.95	1.13	1.04	1.19
Domestic and residual use	Mt	3.28	3.59	3.85	3.68	3.85	3.53	3.66	3.85
Total use	Mt	6.03	6.32	6.65	6.50	8.18	9.16	8.33	8.85
Target price ^d	US\$/t	na	na	na	na	na	232	232	232
Statutory loan rate	US\$/t	143	143	143	143	143	143	143	143
Farm price	US\$/t	214	196	131	124	94	99	178	162

^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.

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.

203 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
2004			
January	220.00	353.00	551.00
February	220.00	346.00	570.00
March	244.00	388.00	558.00
April	247.00	397.00	540.00
May	239.00	412.00	540.00
June	234.00	413.00	529.00
July	236.00	362.00	482.00
August	244.00	331.00	441.00
September	240.00	328.00	468.00
October	249.00	325.00	441.00
November	264.00	318.00	397.00
December	283.00	322.00	397.00
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	370.00

^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.

204 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						
1999-00	31.28	6.35	198.48	133.76	2.95	98.50
2000-01	29.96	6.27	187.91	134.36	1.87	94.10
2001-02	28.49	6.23	177.58	134.58	1.96	82.17
2002-03	28.20	6.19	174.50	134.80	2.58	67.22
2003-04	26.51	6.06	160.66	135.00	0.88	44.93
2004-05	28.80	6.24	179.60	135.10	0.75	34.94
Viet Nam						
1999-00	7.66	4.14	31.71	16.00	3.37	2.48
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	4.00	4.07
2003-04	7.47	4.48	33.46	18.00	4.30	4.15
2004-05	7.42	4.62	34.28	18.50	4.80	3.58
Pakistan						
1999-00	2.52	3.08	7.74	2.60	2.03	0.84
2000-01	2.35	3.06	7.20	2.63	2.42	0.58
2001-02	2.12	2.75	5.82	2.64	1.60	0.20
2002-03	2.20	3.05	6.72	2.65	1.96	0.05
2003-04	2.46	2.96	7.27	2.70	1.99	0.24
2004-05	2.50	2.95	7.38	2.75	2.10	0.51
Thailand						
1999-00	9.97	2.51	25.00	9.50	6.55	1.96
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	9.82	2.62	25.76	9.48	7.50	1.73
United States						
1999-00	1.42	6.58	9.35	3.85	2.85	0.87
2000-01	1.23	7.04	8.66	3.68	2.54	0.88
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	7.60
2004-05	1.35	7.76	10.47	3.85	3.54	0.98
World						
1999-00	155.19	3.92	608.00	395.01	22.76	146.57
2000-01	151.40	3.92	593.08	392.26	24.41	150.71
2001-02	150.07	3.96	593.64	408.86	27.81	139.95
2002-03	145.68	3.86	561.65	403.87	27.55	110.84
2003-04	148.00	3.94	583.25	412.49	27.12	87.11
2004-05	151.68	3.97	602.55	413.33	27.19	73.21

^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.

205 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	420	37 485	5 196	255.8	4 193

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.

206 Australian cane and sugar production

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Area harvested for crushing	'000 ha	402	428	403	426	448	448	420
Cane yield	t/ha harvested	95.9	89.2	69.8	73.8	82.6	82.6	89.2
Cane crushed	kt	38 534	38 165	28 117	31 424	36 995	36 993	37 485
Commercial cane sugar	%	12.46	13.72	13.33	14.09	14.10	13.49	13.39
Sugar production ^a	kt	4 998	5 448	4 162	4 987	5 461	4 994	5 196
Sugar yield	t/ha harvested	12.4	12.7	10.3	11.7	12.2	11.1	12.4
Cane to sugar ratio		7.71	7.01	6.76	6.30	6.77	7.41	7.21
Gross value of sugarcane cut for crushing	\$m	1 044	882	657	989	1 019	854	873

^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.

207 Volume of Australian exports of sugar, by destination

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 ^p
	kt	kt	kt	kt	kt	kt	kt	kt
Raw sugar in bulk								
Canada	684.0	708.8	530.7	512.1	477.5	329.3	381.2	na
China	85.0	50.0	39.0	60.0	230.0	367.7	99.8	na
Chinese Taipei	156.0	154.5	276.0	120.3	122.7	157.5	133.6	na
Egypt	173.0	88.0	0.0	0.0	0.0	0.0	0.0	na
Indonesia	169.9	206.9	130.4	55.5	66.6	163.7	152.3	na
Iran	40.0	20.0	124.0	80.0	0.0	84.0	0.0	na
Japan	708.0	648.6	675.4	474.5	762.6	729.0	518.1	na
Korea, Rep. of	798.0	617.7	815.2	504.8	569.8	795.4	980.3	na
Malaysia	694.0	642.3	767.6	654.9	771.1	798.8	1 015.6	na
New Zealand	182.0	0.0	0.1	0.0	245.6	218.6	220.4	na
Philippines	6.8	78.3	137.4	0.0	0.0	30.0	0.0	na
Saudi Arabia	154.0	200.0	204.0	171.7	169.3	212.0	219.5	na
Singapore	121.0	15.0	30.0	0.0	0.0	0.0	0.0	na
United States	140.0	107.7	75.0	62.9	83.2	88.0	108.3	na
Other countries	423.3	396.0	223.5	269.6	0.5	0.8	102.8	na
Total	4 535	3 934	4 028	2 966	3 499	3 975	3 932	na
Raw sugar in bags	9.6	8.6	7.5	7.2	6.3	7.0	7.0	3.7
Refined sugar	93.6	155.5	95.7	113.1	138.5	185.4	121.0	113.6
Total	4 638	4 098	4 131	3 087	3 644	4 167	4 060	na
(value, \$m)	1 809	1 385	1 095	1 178	1 430	1 220	982	na

^p Preliminary. **na** Not available.

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

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

	Production Mt	Total supply Mt	Consumption Mt	Closing stocks ^b Mt		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	(47.0)	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

^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*, Ratzburg, Germany; F.O. Licht, *International Sugar and Sweetener Report*, Ratzburg, Germany; ABARE.

209 World sugar production, by region and country ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Sugar								
Europe	30.17	28.79	28.17	27.73	26.08	27.99	27.12	29.72
Eastern Europe	6.81	6.68	6.08	6.44	6.07	6.36	6.86	5.58
Poland ^b	2.22	2.24	1.96	2.18	1.69	2.01	2.08	na
Russian Federation	1.34	1.35	1.63	1.73	1.72	1.86	2.19	2.45
Ukraine	2.17	2.03	1.64	1.72	1.83	1.55	1.68	1.95
Other	1.08	1.06	0.85	0.81	0.84	0.94	0.92	1.18
Western Europe	23.37	22.12	22.09	21.29	20.00	21.62	20.26	24.14
European Union ^c	18.90	17.83	18.35	17.50	16.58	17.79	16.83	22.11
Turkey	2.75	2.69	2.29	2.43	1.86	2.27	1.98	2.03
Other	1.72	1.60	1.45	1.37	1.57	1.56	1.45	0.24
Africa	9.24	8.77	8.87	9.35	9.40	9.36	9.44	9.79
Mauritius	0.64	0.50	0.54	0.69	0.58	0.55	0.55	0.59
South Africa	3.18	2.63	2.43	2.65	2.45	2.55	2.30	2.40
Other	5.42	5.65	5.90	6.02	6.38	6.26	6.59	7.39
Americas	44.92	49.19	46.37	47.24	50.96	52.71	55.00	57.60
Brazil	18.13	21.60	17.53	19.07	22.72	25.33	26.69	29.95
Colombia	2.12	2.24	2.36	2.25	2.50	2.64	2.72	2.63
Cuba	3.28	3.85	4.12	3.60	3.70	2.25	2.50	1.42
Guatemala	1.70	1.55	1.63	1.65	1.95	1.85	2.00	2.18
Mexico	5.49	4.99	4.99	5.24	5.17	5.34	5.36	6.10
United States	7.27	7.60	8.21	7.91	7.17	7.63	7.85	7.17
Other	6.92	7.37	7.54	7.53	7.75	7.66	7.89	8.16
Asia	37.71	42.50	42.56	41.48	45.92	52.47	45.30	41.96
China	8.75	9.70	7.44	6.73	9.30	11.35	10.78	9.95
India	13.86	16.77	19.60	19.75	19.56	21.73	14.70	13.95
Indonesia	1.80	1.63	1.71	1.78	1.90	1.83	2.01	2.30
Pakistan	3.80	3.78	2.65	2.65	3.20	3.83	4.30	3.30
Philippines	1.86	1.69	1.71	1.88	1.95	2.23	2.41	2.25
Thailand	4.33	5.48	5.83	5.44	6.50	7.67	6.94	5.43
Other	3.32	3.46	3.62	3.26	3.53	3.84	4.17	4.18
Oceania	5.78	6.07	5.73	4.88	4.92	5.78	6.19	5.36
Australia	5.40	5.68	5.34	4.47	4.58	5.40	5.81	4.98
Fiji	0.35	0.35	0.34	0.37	0.29	0.33	0.32	0.33
Other	0.04	0.05	0.05	0.04	0.05	0.05	0.06	0.05
Total sugar	127.82	135.32	131.70	130.68	137.28	148.32	143.02	144.42

^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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Australia	4.58	4.08	4.01	3.11	3.83	3.94	3.90	4.25
Brazil	8.05	11.25	8.83	8.98	12.63	13.96	15.72	19.22
China	0.28	0.57	0.39	0.18	0.42	0.13	0.04	0.12
Colombia	0.84	0.89	0.94	0.96	1.05	1.35	1.15	1.07
Cuba	2.57	3.23	3.44	2.93	3.07	1.79	2.01	0.91
Dominican Republic	0.27	0.19	0.18	0.19	0.19	0.15	0.21	0.18
European Union ^b	8.85	7.72	8.51	9.24	6.88	8.40	7.16	7.33
Fiji	0.26	0.35	0.32	0.30	0.27	0.28	0.24	0.32
Guatemala	1.28	1.13	1.13	1.43	1.32	1.25	1.49	1.07
Guyana	0.24	0.28	0.28	0.27	0.28	0.30	0.31	0.29
India	0.41	0.03	0.01	1.18	1.33	1.28	0.65	0.23
Korea, Rep. of	0.37	0.32	0.36	0.31	0.32	0.33	0.34	0.33
Mauritius	0.64	0.56	0.44	0.64	0.63	0.56	0.59	0.55
Mexico	1.16	0.60	0.49	0.14	0.52	0.21	0.11	0.11
Poland ^c	0.47	0.47	0.42	0.43	0.06	0.46	0.49	na
South Africa	1.04	1.31	1.30	1.45	1.29	1.06	0.99	1.26
Swaziland	0.50	0.48	0.55	0.58	0.48	0.54	0.63	0.63
Thailand	2.62	3.20	3.90	3.66	4.56	4.75	5.12	3.23
Ukraine	0.12	0.15	0.14	0.12	0.09	0.37	0.34	0.11
United States	0.24	0.15	0.11	0.11	0.11	0.13	0.13	0.21
Other countries	6.87	7.45	6.99	7.95	8.73	9.48	10.81	11.64
Total ^d	41.65	44.42	42.70	44.18	48.05	50.71	52.42	53.06
Imports								
Algeria	0.97	1.00	0.89	0.97	1.02	1.09	1.20	1.34
Canada	1.11	1.16	1.11	1.24	1.10	1.37	1.39	1.26
China	0.41	0.54	0.64	0.89	1.28	0.95	1.17	1.10
Egypt	1.20	1.30	1.04	0.90	1.14	1.05	1.20	1.20
European Union ^b	4.60	4.27	4.75	5.24	5.24	5.60	6.11	5.43
Indonesia	0.69	2.29	1.67	1.43	2.28	2.03	2.23	1.83
Iran	1.08	1.11	1.02	1.00	1.01	0.95	0.64	0.59
Israel	0.50	0.50	0.48	0.51	0.54	0.59	0.62	0.63
Japan	1.61	1.55	1.54	1.54	1.53	1.57	1.32	1.52
Korea, Rep. of	1.37	1.37	1.47	1.48	1.54	1.54	1.63	1.64
Malaysia	0.97	1.19	1.18	1.17	1.31	1.49	1.49	1.47
Morocco	0.55	0.49	0.58	0.51	0.54	0.58	0.75	0.81
Nigeria	0.90	0.83	0.79	1.06	1.41	1.50	1.37	1.44
Pakistan	0.10	0.00	0.28	1.28	0.24	0.03	0.05	0.63
Russian Federation	4.75	5.22	5.21	5.08	5.10	5.23	4.09	3.90
Saudi Arabia	0.66	0.64	0.76	0.83	0.92	0.98	0.99	1.03
Syria	0.61	0.71	0.70	0.87	1.06	1.10	1.17	1.12
Ukraine	0.14	0.32	0.26	0.44	0.27	1.46	0.64	0.31
United States	2.23	1.85	1.38	1.42	1.39	1.47	1.65	1.52
Other countries	14.46	14.49	14.16	14.35	15.17	16.21	17.60	21.24
Total ^d	39.95	41.99	41.23	43.51	45.36	48.72	48.82	50.00

^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.

211 Volume of world raw sugar trade, by country ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Australia	4.48	4.02	3.88	3.01	3.70	3.79	3.74	4.13
Brazil	4.72	6.42	5.74	5.88	7.10	9.25	10.00	12.14
Colombia	0.39	0.50	0.60	0.68	0.58	0.72	0.52	0.49
Costa Rica	0.12	0.13	0.12	0.16	0.12	0.12	0.16	0.19
Cuba	2.57	3.23	3.43	2.92	3.07	1.78	1.89	0.86
Dominican Republic	0.27	0.19	0.18	0.19	0.19	0.15	0.21	0.18
European Union ^b	0.06	0.09	0.13	0.11	0.09	0.12	0.10	0.13
Fiji	0.26	0.35	0.32	0.30	0.27	0.28	0.24	0.32
Guatemala	1.06	0.94	0.97	1.34	1.22	1.20	1.34	0.89
Guyana	0.24	0.28	0.28	0.27	0.28	0.30	0.31	0.29
Jamaica	0.17	0.18	0.17	0.16	0.14	0.13	0.16	0.14
Mauritius	0.64	0.56	0.44	0.64	0.63	0.56	0.59	0.55
Mexico	0.00	0.19	0.01	0.07	0.26	0.10	0.05	0.04
Philippines	0.19	0.15	0.11	0.09	0.09	0.14	0.20	0.23
South Africa	0.85	0.94	0.81	1.25	1.17	0.80	0.68	0.85
Swaziland	0.50	0.48	0.54	0.58	0.48	0.51	0.57	0.57
Thailand	1.40	1.88	2.27	2.22	2.43	2.38	2.23	1.39
Other countries	1.89	1.55	1.75	2.00	1.85	1.98	2.05	2.03
Total ^c	19.82	22.08	21.75	21.87	23.66	24.31	25.04	25.41
Imports								
Algeria	0.06	0.06	0.05	0.05	0.11	0.40	0.68	0.86
Bulgaria	0.25	0.28	0.33	0.31	0.31	0.33	0.32	0.34
Canada	1.08	1.12	1.07	1.19	1.06	1.33	1.35	1.19
China	0.33	0.48	0.57	0.70	1.15	0.81	0.97	0.88
Egypt	0.96	1.04	0.83	0.72	0.92	0.84	0.96	0.96
European Union ^b	2.23	2.18	2.10	2.22	2.57	2.29	2.77	2.28
Japan	1.60	1.55	1.53	1.54	1.52	1.56	1.32	1.51
Korea, Rep. of	1.37	1.37	1.47	1.48	1.54	1.54	1.62	1.64
Malaysia	0.97	1.19	1.18	1.17	1.31	1.48	1.47	1.47
Morocco	0.55	0.49	0.58	0.51	0.54	0.58	0.75	0.81
New Zealand	0.14	0.21	0.20	0.23	0.23	0.22	0.24	0.22
Philippines	0.06	0.44	0.02	0.10	0.05	0.03	0.00	0.00
Russian Federation	4.15	5.01	5.12	4.77	5.03	4.66	3.69	3.60
Saudi Arabia	0.43	0.51	0.61	0.67	0.73	0.79	0.79	0.82
Singapore	0.21	0.17	0.18	0.13	0.14	0.04	0.01	0.01
Ukraine	0.11	0.31	0.19	0.31	0.21	1.37	0.58	0.23
United States	2.16	1.78	1.31	1.33	1.30	1.37	1.55	1.40
Other countries	4.70	5.11	6.20	7.27	7.45	8.15	8.80	10.76
Total ^c	21.36	23.29	23.55	24.69	26.18	27.79	27.90	29.00

^a Raw sugar equivalent, September–August years. ^b Regarded as fifteen countries to 2003-04, then twenty five countries from 2004-05. ^c Totals for exports and imports may not be equal as a result of losses in transit, sugar being at sea at the end of each year, and discrepancies in the official statistics of individual countries.

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

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Volume of world white sugar trade, by country ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Exports								
Brazil	3.33	4.83	3.09	3.10	5.53	4.71	5.71	7.08
China	0.26	0.56	0.38	0.18	0.42	0.12	0.03	0.11
Colombia	0.45	0.39	0.34	0.28	0.46	0.64	0.63	0.58
Egypt	0.31	0.12	0.16	0.19	0.28	0.15	0.12	0.11
European Union ^b	8.79	7.63	8.38	9.13	6.79	8.28	7.06	7.20
Guatemala	0.22	0.20	0.15	0.09	0.10	0.05	0.15	0.18
India	0.38	0.02	0.01	1.17	1.23	1.04	0.47	0.20
Korea, Rep. of	0.36	0.32	0.36	0.31	0.32	0.33	0.34	0.33
Pakistan	0.44	0.78	0.03	0.05	0.13	0.22	0.28	0.05
Poland ^c	0.40	0.43	0.38	0.36	0.06	0.45	0.48	0.41
Thailand	1.22	1.32	1.63	1.44	2.13	2.37	2.88	1.85
Ukraine	0.12	0.14	0.14	0.12	0.09	0.37	0.34	0.11
United States	0.23	0.14	0.10	0.10	0.08	0.11	0.12	0.20
Other countries	5.31	5.46	5.81	5.80	6.76	7.58	8.76	9.25
Total ^d	21.83	22.33	20.95	22.31	24.39	26.39	27.38	27.65
Imports								
Algeria	0.92	0.94	0.84	0.92	0.91	0.68	0.52	0.47
China	0.08	0.06	0.07	0.18	0.12	0.14	0.20	0.22
Egypt	0.24	0.26	0.21	0.18	0.23	0.21	0.24	0.24
European Union ^b	2.38	2.09	2.65	3.02	2.67	3.31	3.34	3.15
Hong Kong, China	0.33	0.23	0.18	0.19	0.21	0.20	0.22	0.24
India	0.89	1.02	0.55	0.04	0.01	0.04	0.01	0.01
Indonesia	0.45	1.73	1.04	0.96	1.80	1.61	1.54	1.32
Iran	0.81	0.69	0.69	0.75	0.76	0.72	0.48	0.44
Israel	0.50	0.50	0.48	0.51	0.54	0.59	0.62	0.63
Kenya	0.21	0.08	0.07	0.15	0.16	0.12	0.23	0.18
Libya	0.30	0.29	0.27	0.26	0.26	0.30	0.25	0.26
Nigeria	0.90	0.83	0.63	0.44	0.57	0.68	0.62	0.45
Pakistan	0.10	0.00	0.28	0.92	0.22	0.03	0.04	0.39
Peru	0.54	0.39	0.20	0.19	0.15	0.02	0.11	0.29
Romania	0.23	0.16	0.13	0.06	0.05	0.08	0.06	0.09
Russian Federation	0.59	0.21	0.09	0.31	0.07	0.57	0.40	0.30
Saudi Arabia	0.23	0.13	0.15	0.17	0.18	0.20	0.20	0.21
Tunisia	0.19	0.16	0.21	0.23	0.29	0.28	0.29	0.30
Turkey	0.01	0.00	0.01	0.01	0.04	0.07	0.07	0.03
Other countries	7.71	7.86	7.71	8.16	8.75	9.36	10.09	11.78
Total ^d	18.59	18.70	17.67	18.82	19.19	20.93	20.92	21.00

^a Raw sugar equivalent, 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.

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

213 Summary of Australian statistics for wheat ^a

	Production			Exports ^b		Domestic use ^e	Closing stocks ^f	
	Area ^c '000 ha	Yield t/ha	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	8 275	1.96	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	10 441	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	5 076	6 119
2004-05	11 991	1.70	20 376	213.6	14 694	213.7	5 210	6 588

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 Inlands wasteage. **f** Includes AWB Limited Pool and Trading Division closing stocks.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Australia, Preliminary*, cat. no. 7111.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; 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								
1991-92	'000 ha	1 499	664	492	3 230	1 297	1	7 183
1992-93	'000 ha	1 800	950	800	4 000	1 550	1	8 275
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	10 441
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	3 335	1 380	550	4 750	1 967	9	11 991
Yield								
1991-92	t/ha	1.46	1.73	0.70	1.47	1.65	3.00	1.47
1992-93	t/ha	2.33	2.53	0.88	1.55	1.73	4.00	1.96
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	2.06	1.49	2.00	1.62	1.33	2.67	1.70
Production b								
1991-92	kt	2 183	1 150	344	4 736	2 141	3	10 557
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	6 870	2 055	1 100	7 705	2 622	24	20 376

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.

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Egypt	735	1 503	1 012	957	1 680	602	2 534	752
Ethiopia	41	33	20	35	10	24	29	0
South Africa	161	234	239	141	98	48	247	183
Asia								
Bangladesh	254	372	343	252	133	130	141	162
China	204	165	107	60	46	38	755	1 893
India	2 189	296	173	7	0	0	4	0
Indonesia	2 424	1 414	1 850	2 192	2 097	1 686	2 647	2 720
Japan	1 108	1 147	1 189	1 161	1 195	1 134	1 250	1 171
Korea, Rep. of	768	1 212	1 181	1 139	953	1 014	1 065	1 213
Malaysia	671	874	800	775	682	370	737	888
Pakistan	1 039	1 102	1 187	0	0	9	140	653
Singapore	86	107	92	98	95	65	48	118
Sri Lanka	80	189	155	262	209	117	132	66
Thailand	315	308	251	272	285	291	422	478
Middle East								
Bahrain	37	21	23	44	0	0	6	3
Iran	579	1 663	1 520	2 352	2 420	1 064	0	0
Iraq	1 388	1 269	2 265	2 587	2 245	1 037	1 111	1 550
Kuwait	177	219	132	180	230	175	259	305
Oman	282	248	300	136	114	27	91	63
Qatar	36	61	22	28	0	0	0	0
United Arab Emirates	289	519	462	399	226	142	196	241
Yemen	527	644	258	507	450	412	198	314
Oceania								
Fiji	66	73	88	93	102	120	122	134
New Zealand	84	94	182	191	305	308	314	339
Papua New Guinea	109	131	137	136	110	130	99	134
Total	15 288	16 441	17 329	16 621	16 464	10 845	15 073	15 779
(value, \$m)	3 687	3 467	3 481	4 197	4 612	3 109	3 475	3 488

^a July-June year except for 1997-98 which is AWB marketing year data. 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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Opening stocks	964	384	1 053	3 308	4 483	7 570	2 930	6 119
Production	19 224	21 464	24 758	22 108	24 299	10 132	26 132	20 376
Availability	20 188	21 848	25 811	25 416	28 782	17 702	29 062	26 495
Total domestic use	4 079	4 347	4 666	4 791	4 894	5 666	5 076	5 213
Food	2 174	2 158	2 189	2 272	2 291	2 378	2 351	2 361
Feed ^b	1 385	1 641	1 930	2 000	2 100	2 700	2 185	2 338
Seed	519	548	546	519	503	588	540	514
Exports								
Wheat	15 519	16 193	17 599	15 888	16 075	8 926	17 581	14 369
Flour ^c	206	256	239	254	242	180	286	326
Total	15 725	16 448	17 838	16 142	16 317	9 107	17 867	14 694
Closing stocks	384	1 053	3 308	4 483	7 570	2 930	6 119	6 588

^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	Unit GVP
	US\$/t	A\$/t	wheat b 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	256.32	221.51	215.67
2004-05	175.43	233.40	194.66	213.56

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, ASW (July-June average) from 1989-90. **na** Not available.
Sources: International Grains Council, *Grain Market Report*, London; ABARE.

218 Summary of world statistics for wheat

	Area 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	547	118	31	22	92	97	156.42
1995-96	219	541	552	104	29	19	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	580	202	54	35	99	98	119.08
1999-00	217	585	583	204	52	35	109	97	113.17
2000-01	216	582	584	202	53	35	102	96	128.50
2001-02	213	582	586	197	47	34	107	95	127.51
2002-03	212	566	600	164	35	27	106	92	160.46
2003-04	207	555	593	127	40	21	102	89	160.49
2004-05	214	623	613	137	53	22	109	90	153.87

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa								
Algeria	0.7	2.3	1.4	0.8	2.0	1.5	3.0	2.6
Egypt	5.8	6.0	6.3	6.6	6.3	6.8	6.8	7.0
Morocco	2.3	4.4	2.2	1.4	3.3	3.4	5.1	5.5
South Africa	2.5	1.7	1.7	2.4	2.5	2.3	2.0	1.7
Americas								
Argentina	14.8	11.5	15.7	16.5	15.3	12.3	14.5	16.0
Brazil	2.4	2.2	2.4	1.7	3.2	2.9	5.9	6.0
Canada	24.3	24.1	26.9	26.8	20.6	16.2	23.6	25.9
Mexico	3.6	3.2	3.1	3.3	3.3	2.9	2.9	2.9
United States	67.5	69.4	62.7	60.6	53.3	43.7	63.8	58.7
Asia								
China	123.3	109.7	113.9	99.7	93.9	90.3	86.5	91.0
India	69.4	65.9	70.8	76.4	69.7	71.8	65.1	72.1
Japan	0.6	0.6	0.6	0.7	0.7	0.8	0.9	0.9
Kazakhstan	8.7	4.8	11.2	9.1	12.7	12.8	11.5	10.0
Pakistan	16.7	18.7	17.9	21.1	19.0	18.2	19.2	19.0
Uzbekistan	3.1	3.6	3.7	3.6	3.2	4.8	5.4	5.2
Europe								
Bulgaria	3.6	3.3	3.2	3.3	3.1	3.5	1.7	3.6
Czech Republic	3.6	3.8	4.0	4.1	4.5	3.8	2.6	5.0
European Union ^a	94.6	103.7	96.5	104.4	90.5	103.2	106.2	136.1
France	33.9	39.8	37.2	37.5	31.4	39.0	30.5	39.7
Germany	19.6	20.1	19.6	21.6	22.8	20.8	19.3	25.4
Italy	6.8	8.1	7.3	6.9	6.2	7.5	6.2	8.6
Spain	4.6	5.3	4.9	7.3	4.7	6.3	6.1	6.8
Sweden	2.1	2.3	1.7	2.4	2.3	2.1	2.3	2.4
United Kingdom	15.1	15.5	14.9	16.8	11.6	16.1	14.3	15.5
Hungary	5.3	5.0	2.6	3.7	5.2	3.9	2.9	6.0
Poland	8.2	9.5	9.1	8.5	9.3	9.3	7.9	9.9
Romania	6.6	4.7	4.4	4.4	7.7	4.4	2.5	7.6
Russian Federation	44.3	27.0	31.0	34.5	46.9	50.6	34.1	45.3
Serbia and Montenegro	3.1	2.9	2.1	2.3	2.5	2.2	1.4	2.8
Slovakia	1.9	1.8	1.2	1.3	1.8	1.6	0.9	1.7
Ukraine	18.4	14.9	13.6	10.2	21.0	20.0	3.6	16.5
Middle East								
Iran	10.2	11.0	8.0	7.0	7.5	12.4	12.4	14.0
Saudi Arabia	1.8	1.8	1.8	1.8	2.0	2.0	2.0	1.6
Syria	3.0	4.1	2.6	2.7	4.7	4.5	4.7	4.3
Turkey	16.2	18.5	16.5	17.5	15.5	17.3	18.5	18.0
Oceania								
Australia	19.2	21.5	24.8	22.1	24.3	10.1	26.1	20.4
Total ^b	609.9	585.9	584.7	582.3	581.7	566.0	555.0	623.0

^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.

220 Volume of world wheat trade, by country ^a

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Africa								
Algeria	5.2	4.5	4.4	5.7	4.6	5.7	4.0	5.1
Egypt	7.2	7.4	6.2	6.1	7.1	6.4	7.2	7.9
Morocco	2.7	2.8	3.2	3.6	3.0	2.8	2.4	2.2
Nigeria	1.0	1.5	1.3	1.9	2.4	2.3	2.4	3.1
Tunisia	1.6	1.1	1.2	1.6	1.4	2.2	0.8	1.0
Americas								
Brazil	5.9	7.3	7.1	7.3	7.1	6.8	5.7	5.5
Cuba	1.0	1.0	1.2	0.9	1.2	0.8	0.7	0.8
Mexico	2.2	2.5	2.6	3.1	3.1	3.1	3.6	3.8
Peru	1.2	1.3	1.2	1.4	1.4	1.2	1.4	1.4
Venezuela	1.3	1.3	1.3	1.4	1.4	0.9	1.6	1.5
Asia								
Bangladesh	0.9	2.1	1.7	1.3	1.7	1.4	2.0	2.0
China	1.9	0.8	1.0	0.2	1.1	0.4	3.7	6.8
Chinese Taipei	1.0	1.0	1.1	1.0	1.0	1.2	1.2	1.1
India	2.0	1.2	1.1	0.0	0.0	0.0	1.2	0.0
Indonesia	3.7	3.2	3.8	4.3	3.8	4.0	4.8	4.7
Japan	5.7	5.7	6.0	5.8	5.7	5.4	5.7	5.6
Korea, Rep. of	3.6	5.0	3.8	3.2	3.8	3.6	3.6	3.8
Pakistan	3.6	3.1	1.8	0.0	0.1	0.2	0.2	1.5
Philippines	1.9	2.4	2.9	3.1	2.8	3.2	3.0	2.7
Europe								
European Union ^b	3.7	3.6	4.0	3.1	10.3	11.9	5.6	7.1
Poland	0.5	0.3	0.3	0.8	0.3	0.1	0.0	0.1
Russian Federation	2.6	1.9	4.8	1.5	0.5	0.4	1.1	1.2
Ukraine	0.1	0.1	0.4	0.6	0.0	0.5	3.4	0.0
Middle East								
Iran	3.6	2.5	7.2	6.2	5.6	1.6	0.2	0.2
Iraq	2.7	2.3	2.7	3.3	2.7	1.6	1.9	2.9
Turkey	1.4	1.6	1.2	0.4	1.1	1.3	1.2	0.4
Yemen	2.3	2.0	2.1	2.3	1.7	1.7	1.5	1.8
Exports								
Americas								
Argentina	11.2	8.6	11.6	11.3	10.1	6.1	7.4	13.1
Canada	20.1	14.7	19.2	17.3	16.3	9.2	15.6	15.5
United States	28.3	28.5	35.4	36.2	32.4	23.2	32.2	27.9
Europe								
European Union ^b	14.2	14.6	17.4	15.2	11.5	15.5	10.3	12.9
Russian Federation	0.7	1.4	0.6	1.1	4.6	13.0	4.0	7.9
Ukraine	1.2	4.3	2.5	0.8	5.5	6.7	0.1	4.4
Asia								
China	0.1	0.4	0.5	0.5	1.3	1.4	2.4	0.8
India	0.0	0.0	0.2	2.1	3.1	5.4	5.4	1.5
Japan	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4
Kazakhstan	0.1	1.9	3.1	3.7	3.8	5.6	4.6	2.7
Turkey	1.3	2.6	1.9	1.6	0.7	0.8	0.7	2.1
Oceania								
Australia ^c	15.3	16.4	17.3	16.6	16.5	10.8	15.1	15.8
Total ^d	104.4	101.3	114.2	103.2	108.5	105.9	102.3	108.5

^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.

221 US wheat supply and disposal ^a

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04 ^b	2004-05 ^b
Area									
– planted	million ha	28.5	26.6	25.4	25.3	24.1	24.4	25.1	24.1
– harvested	million ha	25.4	23.9	21.8	21.5	19.6	18.5	21.5	20.2
Yield	t/ha	2.66	2.90	2.88	2.82	2.72	2.36	2.97	2.91
Production	Mt	67.5	69.4	62.7	60.6	53.3	43.7	63.8	58.7
Opening stocks	Mt	12.1	19.7	25.7	25.8	23.8	21.2	13.4	14.9
Imports	Mt	2.6	2.8	2.6	2.4	2.9	2.1	1.7	1.9
Availability	Mt	82.2	91.9	91.0	88.9	80.1	67.0	78.9	75.5
Domestic use	Mt	34.2	37.6	35.4	36.2	32.4	30.4	32.5	31.9
– food	Mt	24.9	24.8	25.3	25.8	25.2	25.0	24.7	24.2
– feed	Mt	6.8	10.6	7.6	8.2	5.0	3.2	5.6	5.4
– seed	Mt	2.5	2.2	2.5	2.2	2.3	2.3	2.2	2.1
Exports	Mt	28.3	28.5	29.6	28.9	26.2	23.1	31.5	28.9
Closing stocks	Mt	19.7	25.7	25.8	23.8	21.2	13.4	14.9	14.7
– Commodity Credit Corporation	Mt	2.6	3.5	2.8	2.6	2.7	1.8	1.7	1.5
– Free	Mt	17.1	22.3	23.0	21.2	18.5	11.6	12.2	11.9
Farm price	US\$/bus	3.38	2.65	2.48	2.62	2.78	3.56	3.40	3.40
Loan rate	US\$/bus	2.58	2.58	2.58	2.58	2.58	2.80	2.80	2.75
Export price ^c	US\$/t	141.75	119.08	113.17	128.50	127.51	160.46	160.49	153.87

^a June–May year. ^b US Department of Agriculture estimate. ^c US hard red winter wheat (ordinary), fob Gulf; July–June average.

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

222 Wheat export price 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	176.92	180.17
1996-97	224.00	216.58	207.47	178.50	153.33	155.42	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	92.75	98.83
2000-01	192.00	183.91	153.57	128.50	125.04	100.11	102.94
2001-02	185.73	166.45	157.09	127.51	116.71	110.85	116.10
2002-03	205.79	211.80	185.22	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
2004							
January	212.34	209.40	190.54	170.07	160.40	198.40	161.04
February	211.83	215.32	189.24	164.12	148.25	194.33	158.51
March	211.99	214.26	190.05	169.04	152.25	189.13	160.09
April	217.28	215.89	194.47	171.89	159.60	185.84	163.14
May	216.70	212.76	191.86	164.28	155.50	173.26	150.71
June	210.31	207.57	186.01	157.54	143.75	161.57	142.40
July	198.80	194.18	175.50	152.41	137.00	140.37	136.10
August	190.95	184.93	164.65	145.00	124.25	141.04	132.68
September	202.90	215.79	176.54	156.00	127.25	141.29	142.40
October	203.86	215.30	177.77	155.00	124.80	141.13	145.49
November	206.53	222.57	181.78	162.00	115.75	147.39	146.22
December	206.08	209.49	179.36	160.00	111.40	147.07	143.80
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

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)						
1999-00	21.8	2.88	62.7	35.4	35.4	25.8
2000-01	21.5	2.82	60.6	36.2	36.2	23.8
2001-02	19.6	2.72	53.3	32.4	32.4	21.2
2002-03	18.5	2.36	43.7	30.4	23.7	13.4
2003-04	21.5	2.97	63.8	32.5	32.5	14.9
2004-05	20.2	2.91	58.7	31.9	27.9	14.7
Canada (August–July)						
1999-00	10.4	2.60	26.9	8.5	18.7	7.7
2000-01	11.0	2.45	26.8	7.8	17.3	9.7
2001-02	10.6	1.94	20.6	7.4	16.7	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	15.6	6.1
2004-05	9.9	2.62	25.9	9.2	15.5	8.2
Argentina (December–November)						
1999-00	5.9	2.66	15.7	4.1	10.8	0.6
2000-01	6.4	2.58	16.5	5.0	11.2	0.6
2001-02	6.8	2.24	15.3	5.0	11.4	1.2
2002-03	5.8	2.12	12.3	5.3	6.1	1.7
2003-04	6.0	2.41	14.5	5.6	7.4	1.2
2004-05	6.2	2.58	16.0	5.8	13.1	0.9
Australia (October–September)						
1999-00	12.2	2.03	24.8	4.7	17.8	3.3
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	12.0	1.70	20.4	5.2	14.7	6.6
European Union (July–June) ^c						
1999-00	17.1	5.64	96.5	86.8	16.7	14.3
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	22.2	4.78	106.2	107.3	10.3	11.1
2004-05	23.0	5.92	136.1	116.5	12.9	23.1
Total ^{cd}						
1999-00	67.3	3.36	226.6	139.4	100.2	52.2
2000-01	69.0	3.34	230.4	144.9	96.1	53.1
2001-02	65.3	3.13	204.0	140.1	88.3	47.3
2002-03	62.2	2.98	185.5	145.4	63.1	35.2
2003-04	73.3	3.20	234.3	158.0	83.4	40.5
2004-05	71.3	3.61	257.1	168.6	84.1	52.9

^a The marketing period in each country is shown in parentheses. ^b Includes wheat equivalent of flour and other wheat products. ^c Regarded as 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 million	Wool production (greasy) c		Clean yield ac %	Closing stocks (at 30 June) d		Average price	
		Shorn kt	Total kt		Eastern market indicator (clean) e		Auction (greasy) c/kg	
					'000 bales	kt		c/kg
1965-66	157.3	682.0	754.2	58.6	na	na	na	110.4
1966-67	163.9	726.8	799.4	59.1	na	na	na	104.5
1967-68	166.6	728.0	802.6	58.3	na	na	na	92.0
1968-69	174.3	804.3	883.5	59.3	na	na	na	98.5
1969-70	179.8	837.4	925.8	58.9	na	na	na	82.8
1970-71	177.5	800.2	890.0	59.0	582.2	73.9	na	64.7
1971-72	162.7	778.6	881.7	59.1	185.4	26.0	na	75.3
1972-73	139.9	643.6	735.2	58.8	205.8	29.6	na	183.8
1973-74	145.0	644.3	700.9	60.3	176.5	26.0	361.2	181.2
1974-75	151.5	725.3	793.5	62.3	1 616.2	239.2	252.8	127.0
1975-76	148.5	681.4	754.3	62.5	1 326.7	197.4	271.8	143.3
1976-77	135.2	623.9	702.7	61.8	1 094.1	162.6	348.0	182.7
1977-78	131.3	605.5	677.0	62.3	896.6	137.7	354.7	187.1
1978-79	134.1	643.6	705.7	62.9	353.8	55.8	391.7	205.2
1979-80	135.9	642.4	708.5	62.9	208.5	33.2	462.0	243.6
1980-81	134.3	637.9	701.2	62.8	188.3	30.3	478.8	256.0
1981-82	137.9	661.0	717.2	63.0	509.3	81.5	501.9	264.7
1982-83	130.4	641.5	701.7	62.3	928.1	150.0	516.3	269.9
1983-84	135.2	672.6	729.0	63.2	1 233.9	207.0	540.3	293.8
1984-85	145.5	752.7	814.4	64.2	979.6	168.1	586.0	317.8
1985-86	150.3	762.1	829.5	64.3	924.3	159.1	594.9	342.1
1986-87	149.1	813.7	890.4	64.4	381.5	65.7	697.4	395.5
1987-88	152.3	843.0	915.4	64.9	9.2	1.5	1 117.4	632.7
1988-89	161.5	898.9	959.0	65.3	188.3	31.8	1 091.7	647.3
1989-90	170.2	1 030.9	1 102.0	65.8	3 064.7	542.0	969.2	555.3
1990-91	163.2	989.2	1 066.1	65.6	4 607.4	820.1	699.6	413.8
1991-92	148.2	801.0	873.5	65.1	4 068.8	724.3	592.6	358.8
1992-93	138.1	815.1	869.4	66.0	3 950.1	703.0	519.2	313.5
1993-94	132.6	775.8	828.0	65.8	4 184.3	740.0	547.0	330.1
1994-95	120.9	682.5	731.0	64.6	3 597.4	632.2	788.0	504.4
1995-96	121.1	654.9	697.0	64.9	3 226.4	573.6	658.1	386.7
1996-97	120.2	682.0	725.0	65.1	2 556.6	452.3	669.8	403.0
1997-98	117.5	655.1	700.0	65.1	2 173.1	383.7	733.2	444.3
1998-99	115.4	641.0	687.0	65.9	2 104.0	375.6	550.2	323.4
1999-00	118.6	620.3	671.0	65.8	1 476.4	263.4	627.0	357.3
2000-01	110.9	602.0	657.3	66.3	796.5	141.4	764.0	512.0
2001-02	106.2	555.0	605.4	64.9	429.8	81.0	841.0	526.7
2002-03	99.3	502.3	550.5	64.3	123.9	105.0	1 049.0	682.0
2003-04	101.3	474.6	523.0	65.6	707.7	156.3	820.0	533.0
2004-05	102.7	475.0	525.4	63.9	883.3	157.0	746.0	484.9

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)							
1994-95	51.41	29.50	12.64	40.53	17.29	4.85	156.32
1995-96	48.03	27.06	10.73	38.01	18.70	4.18	146.70
1996-97	55.73	30.92	10.43	37.75	17.49	4.40	156.91
1997-98	55.33	31.50	10.96	36.00	17.15	4.43	155.45
1998-99	54.45	28.96	12.94	31.37	16.22	4.27	148.21
1999-00	52.23	29.10	10.43	32.62	15.54	4.48	144.41
2000-01	52.38	27.04	12.32	28.52	15.40	3.92	136.08
2001-02	48.10	27.11	8.78	24.78	14.10	3.80	133.60
2002-03	43.00	24.90	6.95	24.55	13.55	3.65	116.60
2003-04	37.20	22.00	4.70	25.20	13.20	3.60	105.90
2004-05	na	na	na	na	na	na	109.50
Average cut per head (kg greasy)							
1994-95	4.41	4.18	4.44	4.31	4.79	3.77	4.37
1995-96	4.50	4.43	4.41	4.31	5.12	4.07	4.46
1996-97	4.37	4.18	4.91	4.07	4.86	4.35	4.35
1997-98	4.15	3.85	4.36	4.27	4.91	4.03	4.21
1998-99	4.19	4.03	4.56	4.45	4.93	3.98	4.32
1999-00	4.15	3.99	4.69	4.43	4.88	4.05	4.30
2000-01	4.12	4.40	3.82	4.52	4.94	3.82	4.42
2001-02	4.72	4.41	4.42	4.60	5.42	4.39	4.15
2002-03	4.26	4.10	3.31	4.64	4.65	3.84	4.31
2003-04	4.60	4.23	4.47	4.56	4.92	4.17	4.48
2004-05	na	na	na	na	na	na	4.34
Shorn wool production (kt greasy)							
1994-95	226.84	123.30	56.08	174.74	82.83	18.27	682.50
1995-96	216.02	119.93	47.35	163.79	95.69	17.02	654.90
1996-97	243.33	129.18	51.20	153.78	84.97	19.14	682.00
1997-98	229.62	121.34	47.78	153.90	84.16	17.86	655.10
1998-99	228.20	116.60	59.00	139.70	79.90	17.00	641.00
1999-00	216.77	116.10	48.93	144.52	75.84	18.13	620.29
2000-01	216.00	119.00	47.00	129.00	76.00	15.00	602.00
2001-02	227.09	119.44	38.79	114.04	76.44	16.70	555.00
2002-03	183.00	102.00	23.00	114.00	63.00	14.00	502.32
2003-04	171.00	93.00	21.00	115.00	65.00	15.00	474.60
2004-05	na	na	na	na	na	na	475.00
Clean yield (%)							
1994-95	64.97	68.33	61.74	61.89	61.90	70.69	64.64
1995-96	64.40	68.38	na	62.21	62.55	70.88	64.86
1996-97	65.30	68.36	na	61.69	62.10	71.82	65.07
1997-98	65.18	67.49	63.70	62.79	62.64	71.69	65.05
1998-99	66.26	67.69	64.00	62.67	62.67	71.13	65.89
1999-00	65.85	66.25	64.00	63.61	63.30	71.28	65.78
2000-01	67.39	66.53	64.00	62.45	63.00	70.86	66.27
2001-02	65.71	67.44	64.00	62.00	61.70	70.60	64.89
2002-03	66.90	65.70	63.90	60.50	60.60	71.10	64.30
2003-04	66.80	66.00	62.00	64.30	64.20	71.30	65.60
2004-05	63.50	65.90	62.30	62.00	62.00	70.60	63.90

^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	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Sheep disposal a								
Opening number b	million	117.5	115.5	118.6	110.9	106.2	99.3	101.3
Lambs marked	million	40.1	42.6	38.2	37.7	33.9	36.6	38.3
Lambs slaughtered c	million	15.8	16.7	18.8	17.6	17.1	16.4	16.8
Sheep slaughtered c	million	14.4	15.3	16.5	15.0	14.6	10.0	11.2
Live sheep exports	million	5.0	4.9	5.9	6.4	5.8	3.8	3.2
Sheep deaths	million	7.0	2.6	4.7	3.4	3.2	7.1	3.5
Closing number d	million	115.4	118.6	110.9	106.2	99.3	101.3	102.7
Wool production e								
Number shorn	million	148.2	144.4	136.1	133.6	116.6	105.9	109.5
Cut per head	kg	4.32	4.30	4.42	4.15	4.31	4.48	4.34
Wool production (greasy)								
– shorn	kt	641.0	620.3	602.0	555.0	502.3	474.6	475.0
– on skins	kt	46.0	50.7	55.3	50.4	48.1	48.4	50.4
– total	kt	687.0	671.0	657.3	605.4	550.5	523.0	525.4
– clean yield	%	65.9	65.8	66.3	64.9	64.3	65.6	63.9

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 c/kg	New Zealand ^a c/kg	South Africa ^a 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	484.90	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	62.17	35.07	55.70
2003-04	60.08	33.83	53.73
2004-05	66.25	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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Volume (kt greasy equivalent)								
China	174	170	269	324	272	194	200	256
Chinese Taipei	43	53	58	40	37	27	21	21
Eastern Europe a	7	5	4	5	5	7	8	9
European Union b								
France	61	49	39	35	25	21	19	11
Germany	47	42	29	37	22	17	16	9
Italy	141	118	136	133	108	79	62	62
United Kingdom	22	12	10	8	4	3	3	2
Other	28	22	22	24	16	8	6	7
Total	799	683	800	850	683	502	474	513
India	38	35	42	44	32	25	27	30
Japan	44	36	32	25	18	12	10	6
Korea, Rep. of	28	39	49	44	49	34	10	9
Thailand	12	11	14	14	12	13	13	11
United States	34	17	14	12	7	5	3	4
Other	118	75	82	104	77	54	77	76
Total	799	683	800	850	683	502	474	513
Value (\$m)								
China	842	603	925	1 360	1 451	1 423	1 175	1 382
Chinese Taipei	181	154	172	147	181	178	108	93
Eastern Europe a	35	22	14	23	26	52	45	46
European Union b								
France	292	174	137	166	138	149	114	53
Germany	231	152	103	150	124	119	82	41
Italy	739	478	589	761	595	546	347	342
United Kingdom	99	44	35	35	17	18	16	11
Other	104	70	59	86	71	57	28	33
Total	3 964	2 590	2 952	3 877	3 679	3 575	2 776	2 812
India	178	139	151	189	166	177	154	154
Japan	263	158	131	118	98	88	58	32
Korea, Rep. of	151	161	225	247	275	224	60	47
Thailand	70	47	65	73	75	100	80	63
United States	168	82	61	56	34	36	18	22
Other	605	295	283	465	426	408	491	492
Total	3 959	2 579	2 950	3 876	3 678	3 575	2 775	2 811

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 semiprocessed shorn wool

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Scoured								
China	6.7	4.9	4.7	7.4	5.6	5.9	4.2	1.9
Chinese Taipei	3.5	2.0	2.3	0.9	0.2	0.0	0.1	0.0
France	0.5	0.8	0.9	1.1	0.4	0.0	0.0	0.0
Italy	15.6	12.4	12.6	13.0	7.5	5.2	4.7	5.8
Korea, Rep. of	3.8	5.4	6.9	6.7	6.8	2.3	1.2	0.6
Total	85.4	67.1	70.8	74.7	51.5	38.9	33.3	30.7
Carbonised								
China	6.0	3.9	6.6	7.2	6.7	6.4	7.0	6.8
Chinese Taipei	0.5	0.3	0.6	1.2	0.5	0.3	0.3	0.3
France	0.1	0.2	0.1	0.2	0.1	0.0	0.1	0.0
Italy	3.4	5.6	5.3	5.8	3.5	1.7	2.8	3.7
Korea, Rep. of	3.7	7.3	9.2	7.4	8.5	7.1	2.9	3.9
Total	20.2	24.5	29.8	31.3	27.1	22.4	18.7	19.0
Tops and sliver								
China	17.9	15.1	15.4	11.1	9.2	6.6	1.1	0.2
Chinese Taipei	2.3	2.5	2.4	0.9	0.9	0.6	0.2	0.0
France	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
Italy	8.8	8.5	8.4	12.3	12.8	8.4	1.0	0.1
Korea, Rep. of	5.7	7.0	9.3	7.8	9.5	7.2	0.7	0.0
Total	54.7	53.4	52.8	52.0	46.9	32.7	20.3	16.4
Noils and waste								
China	0.0	0.1	0.1	0.5	0.2	0.1	0.2	0.2
Chinese Taipei	0.0	0.1	0.1	0.2	0.2	0.4	0.2	0.0
France	0.3	0.2	0.7	0.6	0.4	0.4	0.1	0.9
Italy	4.9	2.8	4.5	4.0	5.0	3.0	1.9	0.6
Korea, Rep. of	0.0	0.2	0.2	1.2	0.8	0.4	0.1	0.0
Total	7.9	5.8	6.9	7.9	7.3	5.3	3.5	2.1

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

231 World wool production, by country and type

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	kt	kt	kt	kt	kt	kt	kt	kt
Greasy								
Country or region								
Argentina	68	70	63	62	63	72	75	na
Australia	700	687	671	657	605	550	523	525
China a	255	277	293	298	308	338	341	na
Eastern Europe b	45	41	34	34	34	34	34	na
Central Asian Republics c	90	80	82	79	82	84	82	na
New Zealand	266	252	257	237	229	227	218	na
Russian Federation	60	48	39	39	41	42	42	na
South Africa d	51	54	50	49	48	44	46	47
United Kingdom	65	69	63	62	49	50	49	na
United States	28	26	24	22	22	20	19	na
Uruguay	76	60	57	57	49	41	40	na
Other producers	550	576	526	523	519	514	500	na
World	2 419	2 379	2 291	2 247	2 177	2 144	2 108	na
Clean								
Wool type								
Merino	610	596	583	570	551	521	498	na
Crossbred	354	325	303	306	284	269	308	na
Other	479	479	490	485	473	484	425	na
World	1 443	1 400	1 376	1 361	1 308	1 274	1 231	1 237

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 Stocks of raw wool and tops, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Argentina	21	20	25	22	18	15	13	na
Australia b	453	384	380	345	280	223	175	126
New Zealand								
Brokers' carryover b	10	7	7	7	7	7	7	na
United Kingdom	2	4	5	2	3	3	3	na
Uruguay	0	10	17	10	5	5	0	na
Total	486	425	434	386	313	253	208	na

a Clean equivalent stocks at 30 June except Uruguay where stocks are at 30 September. **b** Unsold wool. **na** Not available.

Sources: Commonwealth Secretariat, *Wool Quarterly*, London; International Wool Textile Organisation, *Wool Statistics*, London; International Wool Textile Organisation, *International Wool Textile Overview*, London; National Council of Wool Selling Brokers of Australia, *Statistics*, Melbourne.

233 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
1983-84	674	360	127	91	103	1 355
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	na	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; Federation 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.

234 Market prices for Australian wool, by category ^a

	1997-98 c/kg	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
19 micron	984.0	896.0	1 127.7	1 315.0	1 068.0	1 206.0	966.3	951.7
20 micron	842.0	683.0	754.6	784.0	850.0	1 150.9	913.4	839.8
21 micron	739.0	556.0	556.0	637.0	826.0	1 143.0	887.8	779.1
22 micron	681.0	517.0	474.6	597.0	824.0	1 133.9	865.1	742.5
23 micron	600.0	495.0	432.6	570.0	820.0	1 119.3	841.6	715.4
24 micron	581.0	486.0	423.9	554.0	815.0	1 096.2	811.4	673.8
25 micron	567.0	470.0	408.4	521.0	790.0	1 035.7	762.7	620.8
30 micron	484.0	400.0	351.4	444.0	585.0	595.6	430.9	451.7
Eastern market indicator	733.2	550.2	627.0	764.0	841.0	1 049.0	820.0	746.0
Western market indicator	668.5	475.0	499.8	641.0	764.5	1 026.6	793.2	727.2

^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



235 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

^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.

236 Summary of Australian statistics for aluminium

	Primary aluminium		Exports		
	Production	Consumption a	Volume b	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	329	1 528	3 426	2 242.4
2004	1 894	313	1 534	3 626	2 364.2

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.

237 Australian supply, disposal and prices of alumina and aluminium

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production									
Bauxite	kt	44 483	46 444	51 046	54 560	53 949	54 472	56 316	57 756
Alumina	kt	13 581	14 207	15 037	16 098	16 417	16 413	16 690	17 161
Aluminium	kt	1 589	1 686	1 742	1 788	1 809	1 855	1 877	1 890
Secondary metal ^a	kt	101	104	108	110	127	127	127	127
Exports									
Alumina ^b	kt	10 536	11 059	11 654	12 721	13 091	13 168	13 572	14 073
– value	\$m	2 887	2 910	3 471	4 507	4 114	3 660	3 781	4 383
Aluminium ^a	kt	1 233	1 365	1 364	1 471	1 490	1 551	1 546	1 512
– value	\$m	2 828	2 840	3 302	4 229	3 965	3 696	3 441	3 724
Imports									
Alumina	kt	0.5	0.7	0.9	0.8	0.9	1.6	1.1	1.3
– value	\$m	0.8	1.3	1.2	1.4	1.7	2.5	1.1	1.4
Aluminium ^a	kt	3.1	5.3	5.9	6.0	6.8	4.8	6.7	5.9
– value	\$m	11.4	14.1	18.2	20.5	20.5	14.3	16.2	16.6
Consumption ^c									
	kt	359.5	355.6	345.3	331.5	319.6	324.6	318.2	320.0
Export unit values									
Alumina	\$/t	274.06	263.13	297.80	354.29	314.25	277.97	278.60	311.47
Aluminium	\$/t	2 293.69	2 080.63	2 420.53	2 875.54	2 661.38	2 382.64	2 226.28	2 462.69

^a Ingot metal. ^b Includes aluminium hydroxide. ^c Estimated apparent consumption (primary and secondary). ^{na} Not available.

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.

238 Volume of Australian exports of aluminium, by destination

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
China	11.8	11.2	4.8	17.7	18.6	20.0	46.4	72.0	75.2
Chinese Taipei	152.5	167.3	192.4	228.5	227.2	151.5	219.0	184.1	203.0
Hong Kong, China	77.5	68.5	90.4	71.8	102.1	61.6	74.3	90.0	108.8
Indonesia	51.9	50.8	31.2	52.7	51.1	47.6	51.3	56.3	57.1
Japan	426.7	520.7	562.4	528.4	610.3	610.8	577.5	569.9	551.9
Korea, Rep. of	154.2	193.9	182.3	256.3	230.5	210.2	234.8	217.2	188.5
Malaysia	48.4	27.2	39.0	41.9	24.4	52.1	53.4	61.8	75.2
Philippines	11.9	13.7	12.6	14.8	10.2	5.6	8.6	9.6	7.5
Singapore	11.4	7.1	4.9	9.0	4.1	5.3	5.4	6.0	13.5
Thailand	105.8	80.4	66.4	62.6	75.0	121.4	121.9	152.4	134.4
Other countries	15.9	15.3	123.8	97.0	48.0	203.1	133.9	108.6	118.6
Total	1 068.2	1 156.0	1 310.1	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7

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

239 World production, consumption, stocks and prices for aluminium

	Production					Primary consumption	Stocks	Price ^b
	Bauxite	Alumina ^a	Aluminium		Total			
	kt	kt	Primary	Secondary	Total	kt	kt	US\$/t
			kt	kt	kt			
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	123 717	46 329	20 838	6 923	27 762	20 659	2 642	1 505.9
1997	126 136	46 679	21 798	7 489	29 287	21 795	2 258	1 598.6
1998	122 867	48 146	22 654	7 594	30 248	21 825	2 324	1 357.2
1999	130 128	50 035	23 710	8 132	31 843	23 330	2 570	1 361.0
2000	138 810	52 366	24 465	8 197	32 662	24 903	2 109	1 549.0
2001	137 647	53 757	24 541	7 264	31 805	23 546	2 561	1 443.0
2002	150 463	56 123	26 145	7 649	33 794	25 337	2 901	1 352.0
2003	159 332	59 178	28 000	7 656	35 656	27 425	3 144	1 430.7
2004	171 443	63 948	29 821	7 560	37 380	29 543	3 033	1 716.0

^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.

240 World primary aluminium production, by region and country

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Africa									
Cameroon	82	91	82	92	95	81	67	77	86
Egypt	179	178	187	187	189	191	195	195	216
Ghana	137	152	56	114	156	162	132	16	na
Nigeria	na	3	26	16	na	na	na	na	na
South Africa	617	683	693	687	683	654	704	733	864
Americas									
Argentina	184	187	187	206	262	245	269	272	272
Brazil	1 197	1 189	1 208	1 250	1 271	1 132	1 318	1 381	1 457
Canada	2 283	2 327	2 374	2 390	2 374	2 583	2 709	2 792	2 592
Mexico	62	66	62	63	61	52	38	18	na
Surinam	26	23	27	7	na	na	na	na	na
United States	3 577	3 603	3 713	3 779	3 668	2 637	2 705	2 705	2 517
Venezuela	635	641	584	567	569	572	605	606	631
Asia									
China	1 771	2 035	2 336	2 599	2 794	3 371	4 358	5 547	6 589
India	531	547	542	621	649	624	671	799	861
Japan	17	17	16	11	7	7	6	7	7
Tajikistan	198	189	196	229	300	324	308	319	358
Europe									
France	380	399	424	455	441	461	463	443	451
Germany	577	572	612	634	644	652	653	661	675
Greece	131	133	146	160	163	162	164	165	167
Hungary	34	34	34	34	34	35	35	35	34
Iceland	103	123	173	222	226	243	264	266	271
Italy	184	188	187	187	190	188	190	191	195
Netherlands	227	232	264	287	302	293	283	278	326
Norway	862	919	996	1 020	1 026	1 068	1 096	1 192	1 322
Poland	52	52	52	52	52	45	59	57	46
Romania	141	162	174	174	181	182	187	196	219
Russian Federation	2 874	2 906	3 010	3 149	3 247	3 302	3 347	3 478	3 594
Slovakia	111	110	117	109	110	110	112	131	157
Slovenia	66	74	71	77	76	77	88	110	121
Spain	362	360	360	364	366	376	380	389	398
Sweden	98	98	96	99	100	102	101	101	101
Switzerland	27	27	32	34	36	36	40	44	45
Ukraine	91	101	107	115	119	121	113	114	113
United Kingdom	240	248	258	270	305	341	344	343	360
Yugoslavia	51	81	77	81	96	108	117	120	121
Middle East									
Bahrain	461	490	501	503	509	522	517	526	524
Iran	70	91	111	138	140	145	166	172	203
Turkey	62	62	62	62	62	62	63	63	62
United Arab Emirates	259	378	387	441	536	536	536	536	683
Oceania									
Australia	1 372	1 495	1 627	1 718	1 769	1 797	1 836	1 857	1 894
New Zealand	285	310	318	327	328	322	334	334	351
Total	20 838	21 798	22 654	23 710	24 465	24 541	26 145	28 000	29 821

na Not available.

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

241 World primary aluminium consumption, by region and country

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Africa									
Cameroon	19	25	25	22	25	24	27	27	19
Egypt	79	98	92	83	82	97	91	101	98
Ghana	16	16	16	16	16	16	16	16	16
South Africa	101	124	143	125	186	198	180	180	180
Other Africa	27	18	24	24	27	27	32	32	32
Total	242	282	300	270	336	361	346	356	346
Americas									
Argentina	86	95	115	86	82	70	51	81	116
Brazil	497	479	521	463	514	553	578	589	651
Canada	620	644	721	777	799	760	747	697	761
Mexico	93	83	92	88	88	88	113	113	130
United States	5 348	5 390	5 814	6 158	6 050	5 229	5 509	5 667	5 800
Venezuela	207	193	180	122	183	165	173	181	151
Other Americas	53	93	74	65	87	85	99	99	110
Total	6 905	6 977	7 516	7 759	7 802	6 948	7 270	7 427	7 718
Asia									
China a	2 135	2 260	2 425	2 926	3 499	3 492	4 115	5 178	5 943
Chinese Taipei	310	374	301	464	502	321	407	431	497
Hong Kong, China	42	42	42	48	50	50	42	28	21
India	585	553	567	570	602	589	604	798	861
Indonesia	161	203	75	139	146	163	127	211	249
Japan	2 393	2 434	2 080	2 112	2 225	2 014	2 010	2 023	2 319
Korea, Rep. of	674	666	506	814	823	850	921	982	1 118
Malaysia	115	148	90	131	150	153	149	126	69
Philippines	26	34	24	34	33	25	30	26	29
Singapore	40	19	43	4	15	48	48	56	63
Thailand	220	233	129	156	195	227	250	323	378
Other Asia	116	107	116	112	129	131	178	185	189
Total	6 818	7 075	6 398	7 507	8 368	8 063	8 882	10 367	11 734
Europe									
Austria	155	162	163	143	168	201	208	241	234
Belgium	331	345	370	350	341	327	333	322	402
Croatia	21	22	24	30	28	38	41	28	56
Czech Republic	53	63	79	66	78	88	105	103	114
Denmark	27	36	39	39	41	44	56	60	66
Finland	30	33	33	37	39	37	32	29	33
France	672	724	734	774	780	761	762	754	749
Germany	1 355	1 558	1 519	1 439	1 490	1 580	1 690	1 916	1 802
Greece	156	204	213	213	231	218	220	243	266
Hungary	159	183	164	171	210	223	240	244	226
Italy	585	671	674	735	780	756	851	956	987
Netherlands	145	155	155	155	155	155	155	153	146
Norway	169	197	160	231	253	233	246	246	246
Poland	76	102	108	133	153	149	133	152	160
Portugal	58	69	68	82	78	67	78	72	90
Romania	36	63	80	98	128	113	112	163	163
Russian Federation	444	469	489	563	748	786	991	802	1 020
Slovakia	25	25	22	25	36	39	28	24	20
Slovenia	47	53	75	62	81	116	76	87	119
Spain	360	430	136	494	526	508	533	596	603

Continued

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<i>Europe (continued)</i>									
Sweden	129	142	177	133	147	119	126	126	124
Switzerland	140	144	166	157	165	161	152	168	169
Ukraine	51	50	50	50	50	50	50	30	33
United Kingdom	571	583	579	497	576	433	428	302	439
Yugoslavia	17	24	19	16	16	19	23	33	36
Total	5 857	6 565	6 359	6 778	7 389	7 313	7 764	7 948	8 377
<i>Middle East</i>									
Bahrain	200	270	251	226	239	261	248	255	353
Iran	105	106	103	123	117	117	117	117	117
Saudi Arabia	25	25	25	25	60	65	70	77	77
Turkey	136	161	181	169	211	176	231	308	351
Total	546	638	634	618	707	698	735	860	1 000
<i>Oceania</i>									
Australia	322	352	367	344	346	317	299	329	313
New Zealand	39	37	34	43	42	41	41	55	55
Total	361	389	401	387	388	357	340	384	368
Total	20 659	21 795	21 825	23 358	24 872	23 546	25 337	27 425	29 543

^a Excludes Hong Kong.

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

242 Volume of world aluminium trade, by country ^a

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Exports									
Argentina	93.9	113.5	82.0	123.4	187.0	182.5	203.4	199.9	163.1
Australia	1 068.2	1 156.0	1 310.1	1 380.6	1 401.6	1 489.2	1 526.6	1 527.8	1 533.7
Austria	75.4	67.3	87.3	88.0	91.8	102.2	108.9	103.7	136.0
Bahrain	327.5	220.5	249.3	276.5	269.8	261.1	268.8	270.9	11.6
Belgium	62.3	75.2	111.1	66.7	61.6	184.4	287.3	198.7	308.7
Brazil	709.0	716.2	692.4	788.6	760.0	587.9	749.4	798.8	818.4
Cameroon	65.0	65.6	57.4	70.7	69.8	56.8	39.7	51.2	na
Canada	1 820.4	1 884.6	1 856.4	1 862.6	1 837.3	2 046.1	2 133.3	2 233.2	1 996.9
Chinese Taipei	126.0	137.8	148.9	94.4	103.1	96.1	113.6	121.1	125.8
Denmark	20.7	29.6	28.8	25.7	23.3	26.1	23.4	17.7	14.1
Egypt	108.2	89.4	86.1	109.7	114.4	95.1	108.7	99.2	119.8
Finland	29.9	33.6	37.1	39.6	38.9	33.7	23.5	18.6	17.3
France	230.7	166.6	139.8	153.3	157.4	151.0	156.7	139.0	148.1
Germany	260.3	229.6	236.7	300.3	374.8	366.7	387.6	389.3	413.4
Ghana	120.9	119.0	na	39.4	na	68.7	na	na	na
Greece	44.5	46.7	58.5	60.8	94.5	15.8	62.9	67.6	70.4
Hong Kong, China	316.3	252.7	249.6	215.0	193.0	134.4	145.9	183.4	203.3
Hungary	20.4	19.2	21.7	12.7	12.2	10.9	10.6	16.2	10.0
Iceland	101.1	119.8	162.1	221.4	209.7	258.0	282.5	286.0	278.0
India	94.7	80.4	na	100.3	91.4	101.5	135.7	71.4	76.2
Indonesia	180.3	166.2	148.1	79.9	172.2	149.6	142.7	119.9	167.7
Ireland	0.0	0.3	0.3	na	na	na	na	na	na
Italy	39.4	37.3	35.7	29.6	33.8	31.5	42.0	34.5	47.8
Japan	12.0	10.3	7.1	10.5	10.0	12.6	12.4	18.2	36.3
Korea, Rep. of	43.0	97.3	70.4	31.8	11.8	8.0	24.3	49.9	56.1
Mexico	2.8	0.4	0.8	7.1	10.3	7.5	5.5	4.7	14.7
Netherlands	483.8	472.6	468.7	480.5	450.5	470.0	581.7	635.6	609.6
New Zealand	258.2	283.2	294.0	287.2	296.1	293.5	298.5	289.7	316.1
Norway	875.7	915.3	989.1	988.0	1 041.8	1 187.6	1 127.8	1 362.5	1 485.0
Russian Federation	2 618.4	2 711.6	2 794.4	3 115.7	3 177.2	3 074.4	2 782.0	3 107.9	4 158.5
Singapore	139.4	92.0	58.4	77.8	75.0	88.8	127.5	127.9	102.6
South Africa	541.4	566.8	557.0	630.6	504.4	461.0	584.6	625.8	646.4
Spain	137.3	130.7	107.7	80.4	82.1	92.2	70.9	88.3	103.2
Surinam	26.6	27.5	26.8	6.8	na	na	na	na	na
Sweden	70.7	70.1	47.6	64.8	53.3	66.2	81.2	76.0	127.8
Switzerland	8.5	8.9	8.4	11.6	15.7	5.5	7.1	0.8	8.2
Tajikistan	193.7	182.9	186.6	224.3	288.0	287.0	304.0	150.5	na
United Arab Emirates	264.2	378.5	372.0	441.2	515.9	452.8	377.3	341.0	327.2
United Kingdom	205.3	372.9	225.8	233.6	347.7	263.3	250.4	271.2	335.9
United States	446.6	374.0	373.4	425.0	451.4	339.3	305.2	241.6	344.1
Venezuela	439.8	414.5	410.3	429.4	388.3	398.0	437.4	392.1	389.7
Yugoslavia	39.1	61.0	61.4	69.5	92.5	95.8	116.5	35.0	na
Total	13 050.2	13 607.7	13 693.9	14 792.9	15 285.4	15 176.2	15 911.4	16 685.9	18 147.2

Continued

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt	kt
Imports									
Argentina	1.2	na	na	na	na	na	na	na	na
Australia	13.1	4.2	5.9	5.6	6.0	7.6	4.4	6.1	6.9
Austria	195.5	243.1	253.2	223.7	251.5	293.0	307.3	326.3	336.0
Belgium	351.5	388.3	496.7	413.2	431.9	599.8	669.7	599.6	749.6
Brazil	8.6	5.7	5.8	2.1	2.3	8.7	8.9	6.8	12.0
Canada	139.5	153.9	201.9	246.5	276.3	223.0	196.1	137.9	165.5
China	367.1	288.9	307.0	534.0	914.1	529.6	581.8	880.8	1 033.3
Chinese Taipei	436.3	512.1	449.6	558.5	604.7	417.4	520.8	552.1	622.5
Denmark	33.6	41.0	45.6	43.6	45.4	48.7	61.5	65.4	75.2
Finland	33.0	33.5	37.8	43.2	52.0	50.5	37.5	36.7	41.3
France	438.9	419.2	403.3	464.7	527.8	506.9	474.3	490.5	513.8
Germany	1 108.8	1 400.2	1 471.9	1 333.2	1 586.2	1 602.0	1 666.6	1 895.6	1 798.9
Greece	71.4	119.5	125.8	113.2	135.6	122.4	118.9	144.3	167.6
Hong Kong, China	465.6	479.5	401.3	262.4	242.8	162.9	188.1	211.2	228.5
Hungary	142.7	170.2	157.0	154.1	193.0	203.3	209.3	227.9	366.6
India	116.3	86.4	58.5	49.4	44.7	66.6	68.3	70.6	75.9
Ireland	4.0	11.1	13.5	16.4	12.2	11.5	6.8	6.5	6.6
Italy	484.9	575.1	608.0	652.8	704.8	670.2	781.2	871.5	903.3
Japan	2 762.0	3 027.5	2 551.8	2 657.4	2 905.2	2 611.6	2 575.1	2 941.3	3 021.4
Korea, Rep. of	728.7	771.3	584.1	880.4	889.7	880.6	973.3	1 080.2	1 197.1
Mexico	34.2	16.6	30.9	198.6	231.7	229.4	292.1	325.3	403.9
Netherlands	464.3	528.4	522.9	584.1	615.6	520.6	526.0	583.5	594.3
New Zealand	12.3	10.0	10.8	12.8	9.7	5.7	10.7	17.3	22.1
Norway	149.5	196.3	147.9	186.0	252.5	224.1	282.2	301.6	355.5
Portugal	67.7	79.8	109.2	159.7	194.9	175.0	172.9	193.2	211.2
Singapore	99.3	102.6	82.1	76.7	81.0	229.9	271.7	85.0	188.7
South Africa	1.7	3.8	7.3	6.0	8.2	5.4	4.8	7.7	3.9
Spain	127.6	188.3	177.0	220.7	231.0	216.1	222.7	283.3	326.5
Sweden	105.5	125.3	138.5	104.6	109.1	97.2	120.2	118.9	150.2
Switzerland	117.4	143.6	141.2	123.6	136.3	130.5	119.4	125.1	132.5
Thailand	220.8	238.1	196.3	159.6	356.1	232.2	259.3	330.3	390.7
Turkey	99.3	138.9	143.2	132.8	169.6	125.5	185.5	274.0	327.0
United Kingdom	651.4	436.9	496.0	444.0	277.1	346.9	371.1	294.7	234.2
United States	1 951.0	2 097.2	2 484.6	2 835.9	2 687.6	2 677.1	2 918.2	2 982.7	3 297.7
Yugoslavia	1.3	4.1	3.9	1.7	3.0	4.2	11.0	20.1	na
Total	12 194.2	13 350.3	13 160.8	14 308.7	15 720.8	14 686.3	15 642.8	17 008.3	18 550.8

^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.

243 Australian exports of clays, by destination ^a

	Japan	New Zealand	United Kingdom	Other	Total	
					Volume	Value
	t	t	t	t	t	\$'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

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

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

244 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

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.

245 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	344.44	272.59	66.16	197.87	67.37	21.46
2002-03	348.92	274.85	66.34	207.74	57.26	19.73
2003-04	362.22	285.86	66.72	218.43	49.82	16.13
2004-05	387.05	299.88	66.99	231.31	73.90	17.76

^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.

246 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	145.20	66.66	189.40	6.25	3.06	0.54
2002-03	143.07	66.81	195.96	6.14	3.24	0.52
2003-04	147.58	66.34	204.05	6.56	3.43	0.59
2004-05	150.25	67.15	225.91	6.37	3.83	0.69

^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.

247 Australian consumption of coal, by major end use

	Black coal				Total Mt	Brown coal
	Electricity generation Mt	Iron and steel ^a Mt	Cement Industry Mt	Other consumers Mt		Electricity generation 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	48.17
1991-92	39.88	7.35	0.85	4.72	52.81	49.50
1992-93	40.68	7.11	0.87	4.28	52.94	46.78
1993-94	41.83	7.09	0.90	4.37	54.18	48.56
1994-95	42.82	7.55	0.74	4.26	55.36	48.72
1995-96	45.60	6.39	0.82	4.60	57.41	53.41
1996-97	46.15	6.24	0.80	4.68	57.88	59.75
1997-98	48.16	7.55	0.86	4.69	61.26	64.22
1998-99	49.68	6.48	0.87	4.61	61.64	65.54
1999-00	50.16	5.63	0.85	4.66	61.30	66.43
2000-01	53.54	5.20	0.74	4.66	64.13	63.98
2001-02	55.46	5.46	0.78	4.46	66.16	65.58
2002-03	55.55	5.41	0.85	4.52	66.34	66.14
2003-04	58.53	5.28	0.90	4.55	69.24	66.33

^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.

248 Australian exports of coal, by coal type

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Coking coal, high quality									
Volume	Mt	57.01	56.00	62.78	61.96	65.46	66.45	67.55	80.73
Value	\$m	4 162	3 868	3 587	4 241	5 353	5 122	4 340	7 692
Unit value	\$/t	73.00	69.07	57.14	68.44	81.77	77.08	64.26	95.28
Coking coal, excluding high quality									
Volume	Mt	27.07	29.26	34.03	43.56	40.37	41.34	44.19	44.19
Value	\$m	1 580	1 604	1 596	2 356	2 685	2 325	2 169	3 067
Unit value	\$/t	58.38	54.82	46.92	54.07	66.51	56.25	49.10	69.40
Total coking coal									
Volume	Mt	84.07	85.26	96.81	105.53	105.83	107.79	111.73	124.92
Value	\$m	5 742	5 472	5 184	6 597	8 038	7 448	6 510	10 758
Unit value	\$/t	68.30	64.18	53.54	62.51	75.95	69.09	58.26	86.12
Steaming coal									
Volume	Mt	78.54	84.15	78.97	87.98	92.04	99.95	106.69	106.40
Value	\$m	3 790	3 767	3 114	4 204	5 294	4 448	4 372	6 336
Unit value	\$/t	48.25	44.76	39.43	47.78	57.51	44.50	40.98	59.55

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.

249 Volume of Australian exports of steaming coal, by destination

	1997-98 Mt	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt
Asia								
ASEAN a	2.27	2.81	3.86	2.24	2.48	2.62	2.61	3.79
China b	1.53	1.65	0.88	0.60	2.95	3.99	2.45	1.75
Chinese Taipei	10.04	8.57	9.29	8.65	10.24	10.82	9.89	14.33
Hong Kong, China	1.87	2.06	0.73	0.42	0.26	0.73	1.20	0.37
Japan	40.29	39.28	43.01	49.99	49.62	52.44	58.78	57.28
Korea, Rep. of	15.56	13.77	11.38	12.80	13.40	14.20	16.22	17.95
Other Asia	1.46	2.38	3.31	4.92	3.45	2.79	3.51	2.42
Total	73.03	70.54	72.47	79.63	82.40	87.59	94.66	97.89
Europe								
European Union c	3.89	10.63	5.06	6.49	6.25	7.37	7.86	3.48
Denmark	0.45	0.48	0.32	0.16	0.19	0.41	0.79	0.00
Germany	0.00	1.23	0.00	0.00	0.17	0.00	0.26	0.12
Netherlands	1.76	2.82	1.88	1.39	1.51	1.82	1.59	0.73
United Kingdom	0.44	1.86	1.22	1.75	0.97	1.28	1.88	0.99
Other Europe	1.62	2.98	1.44	1.86	3.38	4.98	4.18	5.02
Total all countries	78.54	84.15	78.97	87.98	92.04	99.95	106.69	106.40

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

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

250 Volume of Australian exports of high quality coking coal, by destination

	1997-98 Mt	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt
Asia								
China a	0.28	1.26	1.42	0.43	0.04	0.68	3.07	3.73
Chinese Taipei	4.16	2.79	2.93	3.90	4.01	3.82	3.43	3.51
India	9.27	8.03	8.57	9.09	9.67	11.08	10.09	13.41
Japan	15.16	14.94	18.54	16.76	17.37	18.22	17.78	22.87
Korea, Rep. of	5.64	5.23	5.10	6.43	6.63	7.44	6.80	8.01
Pakistan	0.53	0.48	0.41	0.42	0.49	0.44	0.43	0.59
Other Asia	2.46	2.47	1.44	1.55	2.11	1.80	1.20	1.18
Total Asia	37.50	35.22	38.40	38.57	40.33	43.50	42.82	53.32
Europe								
European Union b	13.83	15.50	17.60	17.31	18.43	16.60	17.77	19.49
France	2.15	2.63	3.12	3.22	2.94	2.54	2.32	2.47
Germany	1.01	1.38	1.74	1.40	1.24	1.46	1.37	1.58
Italy	2.19	2.26	2.23	2.24	2.34	1.63	1.93	2.53
United Kingdom	4.13	3.93	4.85	4.31	3.97	3.72	3.67	4.01
Other Europe	6.36	6.11	7.62	7.28	8.19	7.76	6.96	7.92
Total all countries	57.01	56.00	62.78	61.96	65.46	66.45	67.55	80.73

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.

251 Volume of Australian exports of coking coal other than high quality, by destination

	1997-98 Mt	1998-99 Mt	1999-00 Mt	2000-01 Mt	2001-02 Mt	2002-03 Mt	2003-04 Mt	2004-05 Mt
Asia								
India	0.27	0.67	1.16	1.64	2.27	3.02	3.49	4.03
Japan	18.15	19.09	21.45	26.72	23.02	23.09	23.60	22.09
Europe								
European Union c	1.07	0.86	2.43	4.76	4.24	3.42	4.04	4.76
Americas								
Brazil	1.11	0.96	1.29	2.20	1.62	2.30	0.77	0.00
Total all countries	27.07	29.26	34.03	43.56	40.37	41.34	44.19	44.19

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.

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

	1997 Mt	1998 Mt	1999 Mt	2000 Mt	2001 Mt	2002 Mt	2003 Mt	2004 s Mt
Metallurgical coal								
Australia a	78.7	84.1	85.3	96.8	105.5	105.8	107.8	111.7
Canada	30.1	28.4	28.9	28.4	26.9	23.0	24.0	26.0
China	4.6	4.9	5.2	6.5	11.4	13.3	13.1	6.4
Poland	9.1	6.5	6.6	5.3	3.8	3.5	2.7	3.0
Russian Federation	9.9	6.7	6.6	7.6	14.4	9.2	9.5	14.1
United States	47.3	42.7	29.1	29.8	23.1	19.5	20.0	24.3
World a	184.6	179.4	168.6	181.6	193.1	179.1	198.6	208.3
Total seaborne	182.4	172.0	173.1	172.0	182.1	173.1	190.8	195.8
Thermal coal								
Australia	73.9	83.6	78.7	85.5	86.7	98.5	103.1	106.9
Canada	6.4	5.8	4.6	3.7	2.7	3.8	4.2	4.5
China a	30.7	27.4	32.2	48.6	78.7	70.6	80.9	80.2
Colombia	27.6	30.1	29.9	35.6	38.4	34.5	44.7	51.2
Indonesia	41.7	47.2	55.3	57.4	65.3	74.2	84.7	107.4
Poland	20.3	21.5	17.5	18.0	19.2	19.1	17.4	16.6
Russian Federation	15.0	17.6	21.3	29.4	27.1	34.3	45.2	51.4
South Africa	64.2	61.3	66.2	69.9	68.2	68.5	71.5	66.4
United States	27.4	27.8	20.4	22.1	12.0	9.1	10.5	11.5
World	347.0	365.2	373.7	418.9	463.5	474.0	509.0	543.2
Total seaborne	284.8	292.8	302.8	356.9	385.1	407.7	448.9	480.1

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.

253 Volume of Japanese imports of coal, by source

	Total imports Mt	Australia %	Canada %	China %	Indonesia %	Russian Federation %	South Africa %	United States %	Other %
Steaming coal									
1996	59.42	57.2	3.4	13.1	11.7	3.6	4.8	5.4	0.8
1997	65.97	59.4	3.1	12.7	12.9	2.8	4.1	3.8	1.2
1998	64.73	60.2	3.0	13.5	13.6	2.3	3.4	3.9	0.1
1999	71.92	58.2	1.9	13.9	13.5	2.9	3.7	4.0	1.9
2000	84.79	54.8	1.2	17.7	13.2	2.8	1.7	3.5	5.1
2001	90.50	55.9	6.4	17.3	10.6	3.6	0.7	1.4	4.1
2002	95.51	53.4	5.7	20.0	11.8	4.2	0.3	0.2	4.4
2003	100.68	53.4	5.2	18.9	12.5	4.6	0.1	0.0	5.3
2004 s	113.00	53.1	5.0	18.2	12.0	4.9	0.1	0.1	6.6
Coking coal									
1996	65.52	48.2	23.8	5.0	3.7	3.8	4.5	9.0	2.0
1997	65.92	51.8	24.5	4.6	4.8	3.8	3.0	7.4	0.1
1998	61.45	49.6	22.5	4.2	5.6	3.3	2.6	5.8	6.4
1999	63.77	57.8	19.6	4.3	5.6	2.6	0.9	3.1	6.1
2000	65.69	63.0	18.9	5.6	5.5	0.0	0.1	0.8	6.1
2001	64.59	63.5	6.7	12.0	11.0	3.7	0.7	1.5	0.9
2002	67.18	61.9	6.2	15.0	9.5	4.5	0.3	0.2	2.4
2003	67.63	63.5	5.7	17.6	8.0	5.0	0.1	0.0	0.1
2004 s	69.20	64.0	8.3	12.2	7.2	6.4	0.0	1.5	0.4

s ABARE estimate.

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

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

	Total imports Mt	Australia %	Canada %	Columbia %	Poland %	South Africa %	United States %	Other %
Steaming coal								
1996	94.42	3.3	0.4	14.1	13.8	29.4	19.0	20.1
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
Coking coal								
1996	39.59	29.5	11.9	0.1	5.8	2.9	45.2	4.6
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	na	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

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

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

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t
Japan									
Steaming coal									
Australia	50.24	45.59	40.80	36.12	34.59	38.32	37.38	35.13	50.20
Canada	45.91	42.01	38.25	33.50	34.72	36.94	37.34	33.82	52.60
China	46.52	44.73	39.96	34.89	33.69	36.95	36.25	35.28	55.06
Indonesia	45.49	41.63	36.58	32.40	31.85	35.17	34.52	32.72	46.98
South Africa	49.86	46.58	41.50	37.34	35.82	38.05	40.30	35.21	na
United States	54.32	49.86	47.52	45.37	45.49	45.99	48.63	na	na
All sources b	49.29	45.26	40.68	35.87	34.59	37.95	36.95	34.93	51.48
Coking coal									
Australia	54.07	52.73	49.47	41.83	39.01	40.96	43.32	43.56	56.85
Canada	64.44	64.84	59.73	51.05	45.46	47.30	50.50	51.64	62.04
China	51.88	49.98	46.78	40.01	37.12	39.35	38.97	39.09	72.57
Indonesia	49.01	45.51	39.73	34.07	32.36	35.13	34.12	31.94	40.78
South Africa	50.94	49.64	47.06	39.74	39.99	47.09	na	na	na
United States	61.05	61.24	59.53	55.79	52.69	47.81	52.07	42.93	na
All sources b	56.39	55.19	50.98	42.95	39.46	41.13	42.14	41.73	61.40
European Union									
Steaming coal									
Australia	48.25	46.38	40.03	36.68	39.04	44.13	43.28	46.83	69.05
Indonesia	38.96	33.61	30.79	29.35	30.05	36.08	36.48	39.29	52.56
Poland	46.50	42.62	39.61	35.03	35.30	44.41	40.75	43.26	68.95
South Africa	42.23	40.33	36.30	31.78	33.83	42.32	36.65	39.10	58.00
United States	48.03	48.47	46.99	40.67	41.07	46.52	43.48	47.37	61.50
All non-EU sources c	45.07	43.13	39.40	34.12	34.93	42.79	38.57	41.88	62.06
Coking coal									
Australia	59.72	57.97	54.99	47.33	45.45	51.24	55.52	58.03	73.63
Poland	61.11	61.01	52.52	47.48	50.43	51.58	50.15	62.24	108.71
South Africa	47.44	43.31	35.83	35.83	39.09	42.10	38.69	39.20	61.31
United States	62.03	60.08	58.53	54.14	52.91	58.54	61.48	64.18	84.75
All non-EU sources c	59.81	58.08	54.55	49.00	47.85	53.50	56.50	59.09	78.42

^a Average unit value cif. ^b Average includes countries not listed separately. ^c Average includes non-EU countries not listed separately. **na** Not available.

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

256 Selected Australian–Japanese contract prices for coking and steaming coal ^a

	1998	1999	2000	2001	2002	2003	2004	2005
Coking coal								
Hard ^b								
US\$/t	53.50	50.95	41.90	39.75	42.75	48.10	46.20	57.00
A\$/t	74.92	82.24	64.97	71.25	83.07	85.53	66.60	78.89
Real A\$/t	86.52	94.17	73.32	77.99	88.24	88.21	66.60	76.80
Other coking ^c								
US\$/t	42.00	37.90	32.20	30.60	36.00	33.05	31.05	41.00
A\$/t	58.82	61.18	49.93	54.85	69.95	58.77	44.76	59.52
Real A\$/t	67.92	70.05	56.35	60.04	74.31	60.61	44.76	57.94
Steaming coal ^d								
US\$/t	37.65	34.50	29.95	28.75	34.50	31.84	26.75	45.00
A\$/t	52.72	55.45	46.44	51.53	67.04	51.12	38.56	62.28
Real A\$/t	60.89	63.49	52.41	56.41	71.21	52.73	38.56	60.63

^a Japanese fiscal year beginning 1 April. Prices are fob; real prices are in 2004 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.
 Sources: International Energy Agency, *Coal Information*, OECD, Paris; ABARE.

257 Australian and US coal export unit values, by destination ^a

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t
Australia									
Steaming coal									
France	34.02	35.12	25.88	22.37	19.14	31.38	22.62	24.05	29.77
Italy	na	na	24.50	22.27	21.30	31.07	25.26	24.77	31.26
Japan	38.89	35.40	31.50	27.02	24.72	29.69	29.20	26.00	38.45
Netherlands	32.65	29.50	23.89	20.49	20.65	26.45	24.65	26.69	42.90
All destinations b	37.77	34.35	30.10	26.49	24.27	28.71	28.01	25.41	37.65
Coking coal									
France	47.24	46.71	42.37	36.49	33.37	37.32	41.41	39.06	46.79
Italy	48.57	48.41	44.48	40.38	34.97	42.68	45.90	45.51	51.40
Japan	46.11	45.52	42.47	34.60	31.64	34.46	36.79	36.18	45.51
Netherlands	46.36	47.94	44.03	37.73	34.10	41.09	46.17	45.45	52.07
All destinations b	47.56	47.37	43.97	35.99	32.85	36.93	40.16	39.75	48.84
United States									
Steaming coal									
France	39.83	38.40	39.16	42.14	28.96	30.50	na	na	na
Italy	45.41	43.31	40.12	51.13	30.67	42.50	42.91	46.67	46.90
Japan	40.02	38.55	37.00	35.40	34.90	37.70	40.41	na	na
Netherlands	36.31	35.86	32.78	28.44	28.90	35.71	na	na	na
All destinations b	36.94	34.84	32.24	32.02	31.84	34.51	37.70	37.00	53.93
Coking coal									
France	51.95	52.03	50.64	47.10	44.19	48.54	54.96	55.56	71.81
Italy	52.80	53.85	52.93	51.02	49.45	53.11	56.41	54.49	66.99
Japan	46.51	45.94	45.98	44.46	41.99	na	na	56.01	98.14
Netherlands	52.13	51.92	51.25	47.90	45.46	48.90	na	na	na
All destinations b	50.05	49.99	48.55	46.19	42.98	45.88	50.06	49.11	70.14

a Average unit value, fob. **b** Average for all countries. **na** Not available.

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

258 World hard coal production, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	206.3	221.1	223.7	239.4	264.2	273.2	274.9	285.2
Brazil	5.6	5.5	5.7	6.7	5.7	5.1	4.6	5.6
Canada	41.2	38.1	36.5	33.8	34.0	29.6	26.6	29.3
China b	1 367.2	1 305.5	1 238.3	1 231.2	1 267.9	1 397.8	1 670.1	1 956.2
Colombia	35.6	33.7	32.7	38.1	43.4	39.5	50.0	56.7
Former Soviet Union c	274.6	268.5	272.6	285.8	307.5	302.8	326.0	355.4
Germany	51.2	45.3	43.8	37.4	30.7	29.2	28.8	29.2
India	296.0	292.3	301.2	311.4	324.8	337.8	358.4	373.2
Indonesia	54.9	62.0	73.8	76.6	92.5	103.4	115.3	129.1
Poland	137.8	115.7	110.2	103.3	104.0	103.7	102.9	100.0
South Africa	220.1	223.0	223.5	224.2	223.6	220.2	240.0	237.9
United Kingdom	48.5	41.2	37.1	31.2	31.9	30.0	28.3	25.0
United States	910.4	936.0	916.9	894.0	948.8	917.9	893.9	932.5
World total d	3 762.5	3 702.7	3 626.2	3 627.9	3 794.1	3 902.1	4 231.2	4 629.2

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.

259 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	111	39 651	8 716	6 902
2002-03	136	16 851	6 074	9 111
2003-04	na	27 067	8 606	8 875
2004-05	na	28 099	9 263	9 321

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; 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.

260 Australian production of dimension stone, by state ^a

	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
	kt	kt	kt	kt	kt	kt	kt
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	2	39	2	36	4	111
2002-03	32	15	43	1	42	3	136
2003-04	na	16	na	3	na	na	na

^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; 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.

261 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

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 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

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.

263 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	8 262	6 905	5 034	3 392	382	196	24 171
2002-03	9 642	7 092	5 560	3 846	383	194	26 717
2003-04	na	6 884	na	na	485	154	na

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; BMR, *Australian Mineral Industry Annual Review*, AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842-1964*, Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

264 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 f	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	1 072	89	25	270	7 947
2002-03	4 265	3 802	1 141	114	27	608	9 957
2003-04	na	3 542	na	54	40	413	na

^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. **na** Not available.

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

265 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	16 675	na	na	na	na	na	na	na
1998-99	15 171	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	15 110	23 876	22 431	900	4 200	1 874	1 548	69 939
2002-03	13 864	22 952	22 986	829	3 934	1 663	1 653	67 887
2003-04	na	na	na	826	na	1 930	765	na

^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; 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*, BMR, Canberra; state mines departments and their equivalents; ABARE.

266 Summary of Australian statistics for copper

	Production					Consump- tion c	Exports d		Price e
	Mine a	Smelter b	Refined		Total		Volume	Value	
			Primary	Secondary					
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	387	484	0	484	165	621	1 931	3 115.3
2001	898	460	558	0	558	163	754	2 318	3 042.2
2002	872	465	543	0	542	188	683	2 000	2 870.1
2003	830	416	484	0	484	184	704	2 024	2 733.5
2004	875	440	498	0	498	169	653	2 589	3 899.3

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.

267 Australian supply, disposal and prices of copper

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production									
Mine a	kt	576	691	796	876	876	883	811	905
Smelter	kt	223	234	387	419	456	469	390	433
Refined	kt	308	331	502	542	561	537	459	478
Primary	kt	283	306	477	517	561	537	459	478
Secondary	kt	25	25	25	25	0	0	0	0
Exports b									
Ores and concentrates c	kt	1 097	1 227	936	1 150	1 271	1 193	1 286	1 327
Value	\$m	822	968	776	1 037	1 028	1 048	1 242	1 728
Refined d	kt	127	160	306	366	388	359	301	322
Value	\$m	372	398	840	1 249	1 131	956	924	1 331
Consumption e	kt	185	185	190	166	192	180	180	160
Export unit value									
Ores and concentrates	A\$/t	749.1	789.3	829.1	902.0	808.7	878.8	966.3	1 302.5
Refined	A\$/t	2 942.1	2 479.8	2 749.2	3 409.7	2 918.1	2 666.9	3 075.5	4 136.7

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.

268 Volume of Australian exports of copper, by destination

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Ores and concentrates								
China	168.0	317.2	225.5	285.1	453.2	370.9	361.7	216.3
Germany	63.0	71.2	8.6	0.9	0.0	14.8	4.8	4.0
India	49.9	171.8	267.0	340.4	453.7	362.5	451.1	452.7
Japan	505.3	392.0	332.6	271.5	261.9	322.2	415.7	346.8
Korea, Rep. of	62.0	189.1	111.2	39.9	20.3	38.1	105.5	36.8
Philippines	92.7	61.3	61.5	60.7	30.6	34.3	26.9	76.1
Other	39.1	31.4	29.4	16.9	25.3	11.7	0.8	49.9
Total	980.0	1 233.9	1 035.8	1 015.3	1 245.1	1 154.5	1 366.5	1 182.5
Total Cu content s	283.9	361.2	302.6	292.5	353.3	317.0	371.2	328.3
Refined								
Chinese Taipei	24.2	45.5	73.2	81.9	90.9	89.8	81.6	96.0
European Union a	25.7	14.4	71.4	55.8	72.6	34.8	31.6	2.6
Indonesia	18.2	5.3	7.6	6.0	7.3	12.4	13.1	31.1
Korea, Rep. of	0.0	6.3	31.3	39.9	51.8	57.6	19.6	6.7
Malaysia	28.7	33.4	41.9	75.0	81.7	83.8	81.8	72.6
Thailand	9.6	1.6	12.0	19.0	28.8	35.0	39.6	52.6
Other	9.7	20.3	16.2	45.8	65.4	50.5	56.3	61.1
Total	116.1	126.8	253.8	323.4	398.6	363.8	323.7	322.7

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.

269 World copper production, consumption, stocks and prices

	Production				Consumption kt	Stocks ^c kt	Price	
	Mine kt	Smelter kt	Refined				US producer ^d USc/lb	LME ^e US\$
			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	10 426	5 881	12 756	12 400	517	109.2	2 293.7
1997	11 482	10 759	6 146	13 599	13 080	897	106.8	2 277.1
1998	12 285	10 907	5 915	14 142	13 353	1 274	78.6	1 654.2
1999	12 789	11 480	5 932	14 463	14 038	1 360	75.9	1 572.6
2000	13 236	11 635	6 052	14 819	15 191	971	88.2	1 813.5
2001	13 738	12 135	5 721	15 683	14 676	1 636	76.9	1 577.5
2002	13 561	11 644	5 554	15 370	15 046	1 711	75.8	1 560.8
2003	13 687	11 657	5 627	15 262	15 363	1 411	85.2	1 779.5
2004	14 535	11 754	5 471	15 760	16 292	719	132.0	2 865.9

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.

270 World copper production, by region and country

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Mine production a								
Africa	617	648	502	462	524	478	545	607
Congo, Dem. Rep. of	40	35	33	33	33	32	56	59
South Africa	186	188	163	146	142	90	89	86
Zambia	331	379	271	249	307	308	347	412
Americas	6 957	7 328	7 779	7 784	8 034	7 737	8 007	8 863
Argentina	30	170	210	145	192	204	199	177
Canada	660	706	620	634	633	603	557	564
Chile	3 392	3 687	4 395	4 602	4 739	4 581	4 904	5 417
Peru	503	483	536	554	722	845	843	1 036
Mexico	390	384	382	365	371	330	356	399
United States	1 940	1 860	1 601	1 450	1 340	1 140	1 120	1 170
Asia	1 695	1 974	2 014	2 331	2 441	2 514	2 402	2 208
China	496	487	520	593	587	568	604	608
Indonesia	548	809	790	1 006	1 047	1 163	1 003	824
Kazakhstan	316	338	373	430	470	473	485	462
Malaysia	19	14	10	0	0	0	0	0
Mongolia	125	128	128	127	136	135	132	130
Philippines	49	45	38	31	24	20	20	16
Uzbekistan	74	74.4	66	65	97	80	82	83
Europe	1 361	1 340	1 297	1 401	1 418	1 526	1 494	1 621
Bulgaria	76	41	53	76	80	84	69	53
Poland	415	436	464	454	474	503	503	531
Portugal	107	115	100	76	83	77	76	96
Russian Federation	510	518	510	580	600	685	665	767
Sweden	87	74	71	78	74	72	83	82
Middle East	183	202	205	222	221	216	207	191
Iran	119	128	130	147	146	141	146	141
Turkey	65	74	74	75	75	75	61	50
Oceania	670	759	899	1 035	1 100	1 090	1 032	1 027
Australia	549	618	738	839	898	872	830	875
Papua New Guinea	112	152	188	203	204	211	190	173
Other countries	12	12	12	0	0	0	0	0
Total	11 482	12 285	12 789	13 236	13 738	13 561	13 687	14 535

Continued

270 World copper production, by region and country *continued*

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Smelter production ^b								
Africa	510	470	482	493	509	440	480	469
South Africa	164	153	149	136	141	98	127	118
Zambia	264	255	289	308	306	311	320	320
Americas	4 597	4 606	4 289	3 928	3 994	3 568	3 292	3 390
Canada	627	625	609	604	643	539	457	476
Chile	1 390	1 403	1 472	1 460	1 503	1 439	1 542	1 567
Mexico	360	337	371	337	337	337	220	266
Peru	323	356	350	340	379	381	314	320
United States	1 720	1 718	1 293	1 002	919	683	539	542
Asia	2 991	3 134	3 787	4 143	4 246	4 355	4 584	4 551
China	657	667	837	1 014	1 145	1 180	1 379	1 323
Japan	1 350	1 304	1 390	1 481	1 445	1 499	1 516	1 465
Kazakhstan	316	336	384	415	433	446	432	445
Korea, Rep. of	151	281	390	390	390	390	410	390
Philippines	173	162	162	160	217	138	112	108
Uzbekistan	116	74	72	75	97	80	82	85
Australia	216	211	332	387	460	465	416	440
Europe	2 454	2 467	2 586	2 684	2 746	2 813	2 866	2 901
Belgium	143	138	143	145	138	126	120	130
Germany	349	320	330	330	330	330	330	330
Poland	431	432	485	483	514	540	584	581
Russian Federation	570	630	758	758	758	800	790	850
Spain	313	330	319	330	305	298	316	224
Total	10 759	10 907	11 480	11 635	12 135	11 644	11 657	11 754
Refined copper production								
Africa	514	478	423	380	453	449	465	509
South Africa	127	123	116	106	107	92	95	92
Zambia	328	306	259	226	308	347	360	408
Americas	6 017	6 428	6 382	6 074	6 398	5 921	5 737	5 900
Canada	561	562	549	551	568	494	455	527
Chile	2 117	2 335	2 661	2 668	2 882	2 850	2 902	2 895
Peru	384	411	434	452	472	503	517	505
United States	2 465	2 489	2 130	1 802	1 800	1 512	1 310	1 306
Asia	3 635	3 834	4 120	4 606	4 937	5 051	5 326	5 490
China	1 179	1 211	1 174	1 371	1 523	1 632	1 836	2 035
India	66	134	208	259	325	374	391	352
Japan	1 279	1 277	1 342	1 437	1 426	1 401	1 430	1 380
Kazakhstan	301	325	362	395	422	453	432	445
Korea, Rep. of	265	369	451	471	476	499	510	496
Philippines	147	152	148	139	165	144	171	175
Uzbekistan	116	90	72	75	97	80	82	85
Australia	276	279	412	484	558	542	484	498
Europe	3 162	3 120	3 112	3 276	3 337	3 404	3 250	3 372
Belgium	373	368	388	423	423	423	423	402
Germany	674	696	696	710	694	696	598	660
Poland	441	447	471	486	499	509	530	550
Russian Federation	640	656	737	824	888	860	818	885
Spain	280	304	305	316	280	322	293	228
Total	13 599	14 142	14 463	14 819	15 683	15 370	15 262	15 760

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.

271 Volume of world copper exports, by country

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Concentrates (Cu content)								
Australia	284	361	303	293	353	317	371	328
Canada	498	414	264	480	622	283	170	165
Chile	1 107	1 169	1 532	1 780	1 798	1 553	1 798	2 166
Indonesia	429	504	485	644	649	719	595	452
Papua New Guinea	95	182	184	186	189	177	222	163
Peru	74	63	48	80	93	371	280	502
Portugal	116	112	110	81	92	49	72	87
United States	128	37	76	175	45	23	10	24
Other	176	230	388	391	393	431	416	441
World total	2 930	3 113	3 444	4 110	4 234	3 923	3 946	4 328
Blister and anode copper								
Chile	158	157	157	170	155	182	276	366
Finland	39	33	32	42	52	43	33	25
Mexico	121	39	31	22	24	18	16	21
Namibia	21	0	0	0	0	0	0	0
Peru	57	45	31	24	31	25	22	0
South Africa	28	16	0	1	35	26	13	1
Spain	34	28	26	27	35	21	37	37
Other	155	170	173	145	193	189	151	181
World total	616	489	462	448	536	507	548	631
Refined copper								
Australia	116	127	254	323	397	364	323	323
Belgium	146	145	172	199	241	201	337	170
Canada	381	356	294	289	310	242	222	289
Chile	2 032	2 248	2 548	2 518	2 696	2 767	2 614	2 975
Germany	147	110	140	94	108	91	118	137
Japan	158	293	318	299	416	378	290	195
Kazakhstan	288	322	354	393	399	391	376	391
Peru	362	348	416	377	433	415	459	318
Philippines	90	102	143	129	157	143	167	159
Poland	209	182	221	240	227	263	284	280
Russian Federation	521	543	634	650	651	505	397	359
Singapore	202	106	137	77	61	59	38	39
United States	93	87	26	97	23	29	123	127
Zambia	304	228	206	217	308	339	363	394
Other	776	1 212	884	762	816	786	775	704
World total	5 823	6 407	6 746	6 664	7 243	6 973	6 886	6 860

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

272 Volume of world copper imports, by country

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Ores and concentrates								
Brazil	103	105	146	122	136	116	103	135
Canada	139	124	138	212	220	128	72	67
China a	234	296	313	453	564	516	671	721
Finland	116	136	129	114	126	125	136	132
Germany	160	151	210	177	259	259	220	286
Japan	942	994	1 062	1 348	1 285	1 261	1 246	1 273
Korea, Rep. of	130	243	292	294	293	320	331	327
Spain	222	234	251	234	226	264	263	194
United States	46	218	143	0	122	226	27	23
Other	303	216	326	456	478	416	219	477
Total	2 397	2 717	3 009	3 410	3 709	3 631	3 288	3 635
Blister and anode copper								
Belgium	101	94	140	215	149	209	291	291
Canada	27	20	28	12	21	59	127	149
China a	111	96	130	125	91	105	123	114
Germany	63	45	37	32	27	39	17	12
Korea, Rep. of	109	63	60	48	59	69	51	54
Mexico	7	19	128	82	119	73	62	70
United States	157	181	175	195	218	145	159	149
Other	73	146	102	50	42	26	21	38
Total	622	628	690	759	726	725	851	877
Refined copper								
Belgium	102	101	71	41	44	37	58	17
Brazil	117	138	116	158	141	103	151	154
China	88	163	405	668	835	1 181	1 357	1 200
Chinese Taipei	590	585	656	629	541	657	621	692
France	528	586	550	589	564	576	579	590
Germany	527	579	565	690	528	460	517	585
Greece	97	70	115	136	130	126	107	120
Italy	450	565	625	603	650	643	651	700
Japan	354	273	230	203	156	114	79	88
Korea, Rep. of	396	487	485	419	380	446	441	488
Malaysia	161	133	158	166	161	187	134	187
Singapore	212	198	116	58	67	40	34	48
Thailand	152	85	117	151	167	186	204	224
Turkey	81	116	141	181	137	187	230	217
United Kingdom	366	349	303	339	311	316	247	214
United States	647	725	916	1 022	1 199	1 062	687	704
Other	732	972	731	737	688	654	585	527
Total	5 600	6 125	6 300	6 790	6 698	6 885	6 668	6 755

a Imported 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.

273 Summary of Australian statistics for gemstones

	Exports			Imports
	Diamonds \$m	Opals \$m	Sapphires ^a \$m	Gem diamonds \$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	42.88
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

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

274 Australian supply and disposal of gemstones

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Diamonds									
Production	'000 ct	40 175	40 843	29 784	26 647	26 176	33 648	31 013	20 620
Exports									
Unsorted s	'000 ct	40 387	52 218	51 703	42 386	21 722	34 442	28 193	22 535
	\$m	354	559	495	630	428	568	635	333
Sorted									
Gem	'000 ct	33	32	23	48	39	43	74	89
	\$m	66	62	64	85	89	103	126	122
Industrial	'000 ct	2.29	0.68	0.30	0.33	0.98	0.19	2 761.25	84.99
	\$m	0.75	1.28	0.74	0.62	0.18	0.50	5.19	0.51
Total exports	\$m	421	622	561	715	517	671	766	456
Imports									
Gem diamonds	\$m	155	151	172	223	242	270	302	320
Other gemstones									
Exports									
Opals	\$m	76	63	54	76	70	62	56	47
Sapphires a	\$m	9	8	6	8	6	1	1	1
Others b	\$m	16	14	11	15	13	14	10	8

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

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

275 World production of natural gem and cheap gem diamonds

	1996	1997	1998	1999	2000	2001	2002	2003
	million ct	million ct	million ct	million ct	million ct	million ct	million ct	million ct
Angola	0.92	1.31	2.76	3.57	4.01	5.10	5.70	6.30
Australia	41.99	40.18	40.84	29.78	26.65	26.18	33.65	31.01
Botswana	17.71	20.11	19.64	21.26	24.64	26.19	28.37	30.40
Congo, Dem. rep. of	22.24	20.98	21.36	22.00	16.50	19.64	21.99	29.00
Namibia	1.40	1.42	1.47	1.63	1.54	1.49	1.54	1.45
Russian Federation	19.20	19.40	19.80	16.20	20.50	20.50	20.00	24.00
South Africa	9.95	10.04	10.70	10.01	10.79	11.16	10.88	12.67
Other	3.39	3.76	3.33	6.75	6.87	7.74	8.97	15.27
Total	116.80	117.20	119.90	111.20	111.50	118.00	131.10	150.10

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

276 Summary of Australian statistics for gold

	Mine production	Exports a		Price d	
		Volume b	Value c	A\$/oz	US\$/oz
		t	\$m		
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	269.88
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

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

277 Australian gold production, imports and exports

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Production									
Mine	t	314.1	310.3	299.7	296.4	280.1	266.1	283.4	258.1
Refined primary									
Australian origin	t	303.4	264.0	296.1	302.2	288.0	261.8	257.0	230.8
Overseas origin	t	29.3	17.6	13.2	15.1	16.8	40.5	74.1	81.7
Refined secondary									
Australian origin	t	0.8	11.0	4.6	7.6	23.3	7.2	4.3	4.3
Overseas origin	t	8.2	115.6	61.8	24.4	45.1	39.8	75.9	53.4
Exports									
Refined and unrefined bullion ^a									
Chinese Taipei	t	5.2	18.0	19.0	17.7	15.7	6.5	3.6	0.5
Hong Kong, China	t	49.7	41.5	31.6	25.5	49.1	29.6	11.7	1.2
India	t	0.4	11.5	3.3	0.5	9.8	13.8	66.1	161.0
Japan	t	14.0	25.6	21.7	23.1	16.0	24.5	8.5	9.4
Korea, Rep. of	t	128.0	82.1	39.6	58.1	45.1	50.3	41.7	30.6
Middle East	t	2.6	14.5	6.6	6.4	28.2	11.1	0.8	0.0
Switzerland	t	18.3	54.9	8.5	1.5	4.5	1.1	4.6	0.0
Thailand	t	9.4	8.5	8.9	8.3	5.1	22.5	11.5	27.2
United Kingdom	t	1.2	122.2	40.4	26.6	54.6	69.8	148.9	56.6
Other	t	30.1	118.2	26.7	12.3	13.3	4.6	5.6	10.2
Total	t	340.3	503.9	334.2	296.4	303.6	269.1	312.6	311.4
	\$m	4 911.8	7 620.8	4 719.7	4 634.5	5 085.8	4 907.9	5 551.2	5 550.8
Imports									
Refined and unrefined	\$m	794.9	3 158.8	1 999.7	1 643.3	2 145.6	2 503.8	2 910.4	2 448.5
Price ^b	\$/oz	446.17	469.17	433.07	480.37	521.30	570.30	559.68	557.15

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

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

278 Australian gold production, by state

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
	t	t	t	t	t	t	t	t
Mine production								
1982	0.61	0.10	0.58	na	20.60	1.74	3.32	26.95
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
Share of total	%	%	%	%	%	%	%	
1982	2.26	0.37	2.15	na	76.44	6.46	12.32	
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	

na Not available.

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

279 World supply, demand and price of gold

	Unit	1996	1997	1998	1999	2000	2001	2002	2003	2004
Supply										
Mine production										
Australia	t	289	314	310	300	296	280	266	283	258
Asia	t	227	233	279	294	295	331	309	330	287
Canada	t	165	172	164	158	155	157	148	141	129
China	t	159	163	165	163	172	193	202	206	217
Europe	t	29	27	27	24	19	20	21	20	19
Latin America	t	308	316	339	381	377	375	393	407	411
Russian Federation	t	133	138	127	138	154	165	181	182	182
South Africa	t	495	493	464	450	428	394	395	376	343
Other Africa	t	129	146	169	185	193	221	237	230	214
United States	t	329	362	366	342	355	335	299	281	258
Other	t	111	130	132	139	147	145	138	140	143
Total mine production	t	2 372	2 493	2 544	2 573	2 593	2 615	2 592	2 593	2 460
Forward sales and option hedging	t	142	504	97	506	- 15	- 151	- 412	- 279	- 427
Net official sales	t	279	326	363	477	479	527	545	617	474
Net scrap sales	t	644	626	1 099	609	610	708	835	939	829
Net other sales	t	109	305	0	0	292	115	171	0	0
Total supply a	t	3 536	4 225	4 103	4 165	4 023	3 902	3 972	4 149	3 841
Demand										
Fabrication consumption										
Jewellery	t	2 842	3 300	3 176	3 143	3 209	3 016	2 667	2 481	2 615
Electronics	t	207	235	226	248	284	198	207	235	261
Dentistry	t	68	70	64	66	69	69	69	67	68
Official coins	t	79	118	147	155	77	82	96	105	113
Medals and unofficial coins	t	19	24	27	25	29	29	27	26	29
Other	t	113	115	103	99	99	97	83	80	83
Total fabrication	t	3 327	3 862	3 743	3 736	3 767	3 490	3 147	2 994	3 168
Net bullion purchases	t	209	362	360	429	242	261	413	876	246
Total demand a	t	3 536	4 225	4 103	4 165	4 023	3 902	3 972	4 149	3 841
Gold price b	US\$/oz	387.72	331.14	294.23	279.08	279.28	269.88	310.20	363.68	409.28

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.

280 Summary of Australian statistics for gypsum

	Production	Exports ^a		
		Volume	Value	Unit value
	kt	kt	\$'000	\$/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	4 087.5	1 010.0	21 835	21.62
2002-03	3 937.7	1 045.0	18 788	17.98
2003-04	na	1 083.0	16 570	15.30
2004-05	na	878.4	15 172	17.27

^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; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; state mines departments and their equivalents; ABARE.

281 Australian production of gypsum, by state

	New South Wales 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	600.9	78.7	1 776.6	1 346.3	4 087.5
2002-03	183.0	420.3	55.3	1 820.5	1 458.6	3 937.7
2003-04	na	439.9	69.2	1 902.8	1 528.6	na

na Not available.

Sources: ABS, *Mineral Production, Australia*, cat. no. 8405.0, Canberra; ABS, *The 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.

282 Australian exports of gypsum

	Raw ^a							
	New				Total		Calcined	
	Indonesia	Zealand	Singapore	Other	Volume	Value	Volume	Value
kt	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

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

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

283 World mine production of gypsum, by country

	Australia kt	Canada kt	China a kt	France kt	Japan kt	Spain kt	United States kt	Other kt	Total kt
1960	590	4 620	na	3 777	735	2 487	8 913	19 520	40 642
1961	620	4 591	na	3 836	724	3 052	8 618	20 217	41 658
1962	641	4 837	na	3 997	800	3 557	8 221	22 653	44 706
1963	737	5 381	na	4 208	782	4 598	9 424	21 608	46 738
1964	808	5 770	na	4 913	751	2 854	9 692	21 951	46 738
1965	847	5 720	na	5 013	649	2 855	9 104	20 518	44 706
1966	814	5 427	na	5 272	597	2 947	8 751	20 898	44 706
1967	929	4 471	na	5 190	584	2 947	8 522	22 064	44 706
1968	857	5 664	na	5 162	572	3 963	9 235	23 064	48 516
1969	912	6 334	na	6 055	569	4 064	9 108	23 557	50 599
1970	845	5 844	na	6 088	581	4 288	8 584	24 570	50 800
1971	889	6 169	na	5 111	536	4 200	9 451	26 644	53 000
1972	959	7 200	na	5 850	465	4 100	11 840	27 236	57 650
1973	1 165	7 540	na	6 160	460	4 100	12 330	29 105	60 860
1974	1 069	7 470	na	6 220	na	4 400	10 890	31 941	61 990
1975	933	5 700	na	5 800	na	4 200	8 800	31 567	57 000
1976	942	6 002	na	5 900	na	4 200	10 868	34 858	62 770
1977	916	7 234	na	6 032	na	5 482	12 147	39 894	71 705
1978	940	8 075	1 500	6 036	na	5 369	13 509	40 280	75 709
1979	1 230	8 098	3 630	6 240	na	5 275	13 272	43 615	81 360
1980	1 309	7 209	3 360	5 889	na	5 223	11 227	43 150	77 367
1981	1 752	7 025	3 450	6 147	na	5 223	10 430	42 129	76 156
1982	1 864	5 987	3 540	6 039	6 363	5 048	9 560	33 913	72 314
1983	1 510	7 507	4 260	5 544	5 845	5 620	11 688	36 695	78 669
1984	1 931	7 756	4 810	5 400	6 100	5 365	12 990	36 378	80 730
1985	1 744	8 400	5 700	5 400	6 300	5 500	13 360	38 706	85 110
1986	1 671	8 500	6 500	5 500	6 300	5 500	14 300	39 309	87 580
1987	1 812	8 600	6 800	5 400	6 300	5 500	14 300	39 680	88 160
1988	1 656	8 500	8 100	5 400	6 300	5 500	14 870	49 534	99 860
1989	1 835	8 700	8 100	5 700	6 300	5 500	16 000	46 385	98 520
1990	1 886	8 200	8 000	5 620	6 350	5 000	14 550	48 055	97 660
1991	1 382	8 000	8 100	5 600	6 350	5 000	14 022	45 481	93 935
1992	1 348	7 054	10 977	5 715	5 443	4 990	14 759	47 257	97 791
1993	1 590	7 345	9 616	4 536	4 990	6 804	14 344	44 504	93 623
1994	1 692	8 500	10 500	5 000	5 300	7 250	17 200	45 735	101 000
1995	1 995	7 960	11 000	5 000	3 900	7 500	16 600	44 297	98 100
1996	1 916	8 330	8 000	5 000	5 350	8 000	17 500	45 802	99 700
1997	2 393	8 500	7 800	5 000	5 500	7 400	18 600	49 309	104 000
1998	3 052	8 100	9 000	4 500	5 300	7 400	19 000	51 128	107 000
1999	3 466	9 470	9 000	4 500	5 500	7 500	22 400	50 940	107 000
2000	3 796	8 550	6 800	4 500	5 600	7 500	19 500	45 233	106 000
2001	3 225	8 560	6 800	4 500	5 900	7 500	16 300	51 249	104 000
2002	4 087	8 850	6 850	3 500	5 900	7 500	15 700	48 613	101 000
2003	3 938	9 000	6 900	3 500	5 700	7 500	16 000	51 736	104 000
2004	na	9 000	6 900	3 500	5 700	7 500	18 000	na	106 000

a Excludes Hong Kong. na Not available.

Sources: Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; US Department of the Interior, US Geological Survey, *Mineral Commodity Summaries*, Washington DC; ABARE.

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

	Production				Iron ore consumption	Exports		
	Iron ore		Pig iron	Crude steel		Iron ore and pellets	Pig iron	Crude steel ^{bs}
	Pellets kt	Total kt	kt	kt		kt	kt	kt
1960	na	4 455	2 929	3 747	4 700	na	101	10
1961	0	5 463	3 211	3 844	5 700	0	301	88
1962	0	5 048	3 490	4 235	5 100	0	160	100
1963	0	5 689	3 683	4 652	5 600	0	135	32
1964	0	5 846	4 049	5 099	5 500	13	57	9
1965	0	6 805	4 252	5 464	6 500	152	46	10
1966	0	11 071	4 743	5 891	7 500	2 045	97	255
1967	0	17 314	5 058	6 268	7 900	9 164	152	344
1968	3 000	26 632	5 573	6 503	8 600	16 398	246	356
1969	5 871	38 576	6 107	7 016	9 300	26 858	375	545
1970	5 957	51 188	6 148	6 822	9 400	41 112	310	226
1971	6 800	62 063	6 128	6 737	9 600	52 796	519	122
1972	6 424	64 401	6 491	6 743	9 600	54 079	582	597
1973	10 153	84 828	7 658	7 682	11 300	74 181	853	771
1974	10 066	96 950	7 250	7 755	10 700	83 654	753	775
1975	9 469	97 651	7 475	7 843	11 000	80 363	520	1 636
1976	9 594	93 255	7 417	7 774	10 900	81 231	698	1 534
1977	10 226	95 932	6 753	7 313	9 900	78 908	647	1 280
1978	9 471	83 134	7 337	7 589	10 800	75 264	711	1 008
1979	9 303	91 717	7 811	8 125	11 500	78 447	643	611
1980	5 329	95 534	6 959	7 594	11 585	80 375	515	306
1981	3 887	84 661	6 830	7 635	11 810	71 729	158	378
1982	3 321	87 694	5 956	6 371	10 853	72 567	101	218
1983	3 043	71 040	5 045	5 657	8 923	74 088	469	384
1984	3 497	94 406	5 329	6 303	9 380	85 477	71	294
1985	3 725	92 900	5 607	6 578	8 673	84 746	26	583
1986	3 338	94 015	5 889	6 703	9 680	79 523	26	496
1987	3 309	101 748	5 569	6 125	9 319	77 829	165	523
1988	3 400	96 064	5 730	6 399	9 570	94 855	25	843
1989	3 600	105 810	6 094	6 735	8 836	101 681	24	948
1990	4 537	110 509	6 125	6 666	8 881	95 928	1	1 740
1991	3 475	117 673	5 647	6 017	8 188	111 557	0	1 934
1992	1 437	112 115	6 388	6 990	9 263	103 487	0	2 315
1993	1 512	120 534	7 284	7 837	10 926	111 527	0	2 621
1994	1 507	128 766	7 855	8 455	11 783	119 093	0	3 069
1995	1 596	142 964	7 861	8 431	11 791	130 369	0	2 950
1996	1 608	152 138	7 381	8 379	11 662	128 274	22	3 130
1997	168	156 286	7 884	8 837	12 131	146 757	4	3 188
1998	3 618	160 731	7 724	8 886	11 515	136 418	0	3 364
1999	1 932	151 558	7 147	8 162	10 303	139 278	3	2 999
2000	2 116	171 508	6 115	7 297	9 113	157 368	3	2 549
2001	2 073	181 435	6 029	7 076	8 738	156 718	0	1 998
2002	2 178	188 760	6 466	7 550	9 070	165 869	0	2 153
2003	2 294	212 881	6 611	7 714	9 394	187 570	0	2 304
2004	2 141	234 008	6 546	7 659	9 815	211 359	0	2 447

^a Iron ore figures expressed in dry 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.

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

	1997	1998	1999	2000 ^b	2001 ^b	2002 ^b	2003 ^b	2004 ^b
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	4	18	18	16	59	8	5	7
Americas								
North	456	1 123	986	544	88	270	254	259
Other	53	129	96	93	44	44	35	15
Total	509	1 252	1 082	637	132	314	289	274
Asia								
China	58	56	55	93	698	877	1 251	430
Chinese Taipei	445	287	230	183	78	39	65	155
Hong Kong, China	195	154	86	45	16	9	12	5
India	4	154	62	20	4	41	6	5
Indonesia	296	51	165	82	75	36	46	61
Japan	127	76	72	53	25	175	3	5
Korea, Rep. of	474	302	598	302	343	149	271	93
Malaysia	270	87	115	66	48	17	94	51
Philippines	232	88	56	11	19	2	3	3
Singapore	116	57	45	19	7	51	7	7
Thailand	181	154	194	124	29	51	70	81
Other	52	47	82	52	37	78	139	50
Total	2 451	1 512	1 760	1 049	1 379	1 525	1 966	946
Europe	59	464	230	212	73	224	77	6
New Zealand	111	90	138	92	91	137	112	117
Other	53	29	26	501	13	65	77	13
Total	3 188	3 364	3 253	2 507	1 747	2 275	2 526	1 364

^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.

286 Australian supply and disposal of iron ore and steel

	Unit	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production								
Iron ore and concentrate	kt	153 478	159 750	175 555	185 302	198 892	221 489	252 289
Pig iron	kt	7 453	6 489	6 096	6 169	6 634	6 624	6 520
Raw steel	kt	8 549	8 053	8 003	8 311	9 399	9 471	7 556
Exports								
Iron ore and pellets	kt	135 185	149 436	157 320	156 130	181 478	194 773	228 271
	\$m	3 844	3 779	4 903	5 160	5 342	5 277	8 101
Iron and steel s	kt	3 332	2 941	2 931	3 297	3 589	3 818	2 249
	\$m	1 311	1 265	1 484	1 484	1 855	2 004	1 952
Scrap	kt	697	754	1 063	934	890	955	1 009
	\$m	125	155	212	177	211	298	402
Export unit value								
Iron ore and pellets	\$/t	28.44	25.29	31.16	33.05	29.44	27.09	35.49

s ABARE estimate.

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

287 Volume of Australian iron ore exports, by destination ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Asia								
China	31 510	26 840	26 219	33 293	38 023	44 018	59 971	80 109
Chinese Taipei	7 788	7 306	8 017	9 089	9 904	9 347	8 664	9 095
Japan ^b	64 215	60 633	64 889	69 362	66 830	70 492	75 353	80 314
Korea, Rep. of	16 867	17 793	19 154	21 203	23 810	25 120	26 000	26 472
Other	1 137	725	830	828	922	865	594	494
United States	628	1 038	618	609	436	628	67	0
Western Europe	23 788	21 333	18 890	21 484	15 867	14 450	16 051	12 563
Other ^c	825	750	662	1 501	926	949	870	2 314
Total	146 757	136 418	139 278	157 368	156 718	165 869	187 570	211 359

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

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

288 Summary of world statistics for iron ore and steel

	Production				
	Iron ore a		Iron b	Crude steel	Iron ore exports a
	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	1 029.5	491.5	750.2	402.0
1996	238.9	1 026.2	486.6	749.6	391.0
1997	249.5	1 074.4	515.1	798.6	483.4
1998	242.6	1 036.8	502.6	777.4	466.1
1999	233.5	1 009.9	510.6	789.0	446.1
2000	259.1	1 078.0	544.5	847.4	505.8
2001	235.9	1 047.1	549.0	850.2	496.5
2002	265.8	1 108.5	583.3	903.8	545.0
2003	282.4	1 213.0	635.8	968.3	585.6
2004	303.2	1 349.3	687.6	1 056.7	585.5

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

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

289 World iron ore production, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	165.0	163.3	153.0	176.3	180.5	187.2	212.0	234.7
Brazil ^b	188.0	183.1	188.7	208.8	210.0	215.0	235.0	270.5
Canada	38.2	38.7	34.0	35.9	27.9	30.9	33.2	28.3
China ^c	267.0	246.9	237.2	224.0	218.3	231.4	261.1	310.1
CIS ^d	136.9	132.1	138.1	157.2	151.3	158.6	171.6	181.3
India	69.4	71.7	70.2	74.9	49.2	86.4	99.1	120.6
South Africa	33.2	33.0	29.5	33.7	34.8	36.5	38.1	39.3
Sweden	21.9	20.9	18.9	20.6	19.5	20.3	21.5	22.3
United States	63.0	62.9	57.8	63.1	45.8	51.5	48.5	54.7
Venezuela	18.7	17.2	17.0	17.4	19.0	20.9	19.2	20.0
Other	73.2	67.0	65.5	66.1	90.8	69.8	73.7	67.5
Total	1 074.4	1 036.8	1 009.9	1 078.0	1 047.1	1 108.5	1 213.0	1 349.3

^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.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Australia	155.5	144.7	146.2	165.2	164.5	175.6	187.5	210.7
Brazil	140.4	143.2	140.2	160.1	155.7	170.0	184.4	200.9
Canada	32.3	30.6	26.9	26.5	22.0	25.6	27.8	22.5
Former Soviet Union ^b	30.4	28.0	29.6	43.9	40.4	42.7	48.8	48.6
India	32.9	32.8	31.0	32.9	41.0	54.9	57.3	62.7
Mauritania	11.7	11.4	11.0	11.1	10.1	10.5	9.6	11.0
South Africa	20.7	22.1	21.1	21.4	23.5	24.3	24.1	24.7
Sweden	18.3	16.0	13.9	16.0	13.7	14.5	16.1	17.4
Venezuela	9.3	8.6	6.6	6.9	6.9	6.7	7.4	9.3
Other	31.9	28.7	19.6	21.8	18.7	20.2	22.6	25.7
Total	483.4	466.1	446.1	505.8	496.5	545.0	585.6	585.5

^a Natural weight. ^b 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: 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.

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

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Africa and Middle East									
Qatar	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.4
Saudi Arabia	3.2	2.7	3.3	3.5	4.5	3.9	4.7	4.3	3.9
Other	8.0	9.3	7.8	7.4	11.2	9.6	10.0	10.3	11.3
Total	11.8	12.6	11.7	11.4	16.2	13.9	15.0	15.0	15.6
Americas									
Argentina	4.9	5.3	5.4	4.5	5.4	4.5	5.2	6.3	13.5
Canada	6.9	7.1	7.2	7.3	6.5	5.9	6.8	6.6	8.0
Mexico	2.2	2.8	4.0	3.9	3.2	2.1	2.7	3.6	4.0
United States	18.4	18.6	16.9	14.3	15.7	10.7	12.5	12.6	11.8
Other	1.7	1.7	1.7	2.1	2.5	3.3	3.2	3.2	3.8
Total	34.1	35.5	35.2	32.1	33.3	26.6	30.4	32.3	41.1
Asia and Oceania									
China	43.9	55.1	51.8	55.3	70.0	92.3	111.5	148.1	208.1
Chinese Taipei	10.1	14.0	14.2	13.3	14.9	15.6	15.2	15.6	15.7
Indonesia	2.5	1.9	1.3	2.4	2.2	1.3	1.5	1.6	2.0
Japan	120.7	127.6	118.6	123.0	131.5	125.3	131.8	132.4	134.9
Korea, Rep. of	34.8	38.6	33.6	35.5	39.0	45.9	43.3	43.1	44.2
Malaysia	1.7	2.6	1.1	1.4	1.7	1.6	1.3	1.6	2.2
Pakistan	1.6	1.7	1.4	1.6	1.5	1.4	1.5	1.0	1.0
Other	2.8	3.9	4.0	3.7	3.7	3.2	2.3	1.8	3.4
Total	218.1	245.3	226.0	236.2	264.5	286.6	308.4	345.2	411.5
Europe									
Austria	4.5	5.1	5.2	4.4	5.4	5.3	5.8	5.7	5.8
Belgium–Luxembourg	13.0	11.2	13.5	12.1	11.9	11.1	12.2	12.1	10.6
Bulgaria	2.1	2.2	2.1	1.7	1.8	1.3	1.5	1.7	1.7
Czech Republic	8.3	7.4	7.4	5.4	6.9	6.9	6.8	8.2	7.6
Finland	3.3	3.7	3.9	3.8	3.9	3.9	3.8	4.2	3.8
Former Yugoslavia	1.0	1.1	0.3	1.3	0.3	0.0	0.1	1.8	2.1
France	18.4	20.2	19.8	20.2	19.7	16.7	19.0	18.9	21.0
Germany	39.8	46.4	46.8	39.2	47.6	40.1	44.3	33.9	43.9
Hungary	2.3	1.5	2.1	1.7	2.1	1.7	1.7	1.8	1.9
Italy	16.0	16.7	15.7	15.6	17.6	15.8	14.9	15.3	16.7
Netherlands	8.4	8.6	8.8	7.9	8.9	6.3	7.4	7.8	12.6
Poland	9.5	10.3	9.7	7.3	9.7	7.7	7.0	8.7	10.9
Portugal	0.6	0.6	0.6	0.5	0.6	0.7	0.1	0.0	0.0
Romania	5.8	6.6	6.6	4.2	4.5	3.9	6.2	7.0	6.6
Russia	7.6	7.3	4.1	4.1	9.1	8.8	8.7	10.1	10.4
Slovakia	4.2	4.3	4.0	4.3	4.7	3.8	5.1	5.7	6.1
Spain	6.4	5.8	6.6	6.3	6.3	6.6	6.2	5.8	6.1
Turkey	6.1	5.9	6.6	6.3	6.3	6.6	6.2	5.8	5.4
Ukraine	2.4	3.4	3.1	3.0	4.1	2.6	5.1	5.5	3.3
United Kingdom	20.4	21.0	20.8	17.0	16.7	15.4	13.7	16.1	15.3
Other	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1
Total	180.2	189.4	187.8	166.4	188.3	165.3	175.8	176.2	191.9
Total	440.7	480.7	458.1	442.0	501.6	491.9	528.0	571.7	659.7

^a Natural weight.

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

292 Iron ore prices

	Australian		Spot ^b		Negotiated ^d	
	export unit value ^a		Nominal	Real ^c	Fines	Lump
	A\$/t	US\$/t	US\$/t	US\$/t	US\$/dltu	US\$/dltu
1960	na	na	17.08	81.00	na	na
1961	na	na	17.79	83.44	na	na
1962	na	na	16.75	77.71	na	na
1963	na	na	15.69	71.79	na	na
1964	6.09	6.82	15.69	71.01	na	na
1965	8.26	9.25	15.69	69.82	na	na
1966	8.38	9.39	15.25	65.82	12.00	15.50
1967	8.36	9.36	13.50	56.79	12.00	15.50
1968	8.67	9.71	12.62	50.95	12.00	15.50
1969	8.69	9.73	11.68	44.65	12.00	15.10
1970	8.04	9.00	15.22	54.95	11.90	15.00
1971	7.69	8.72	13.40	46.43	11.80	14.90
1972	7.29	8.69	12.79	42.81	11.70	14.80
1973	6.19	8.80	17.13	53.99	13.30	17.30
1974	7.04	10.13	19.00	54.00	15.40	19.30
1975	9.32	12.21	22.81	59.37	17.40	21.20
1976	10.23	12.53	22.72	55.89	17.70	21.70
1977	12.06	13.38	21.59	49.92	20.20	24.70
1978	12.06	13.81	19.39	41.67	21.20	24.30
1979	12.87	14.39	23.44	45.21	23.10	26.10
1980	14.59	16.63	28.09	47.83	27.60	31.20
1981	15.79	18.15	28.09	43.36	29.70	34.20
1982	19.88	20.23	32.50	47.26	34.80	40.00
1983	21.23	19.16	29.00	40.85	30.45	34.85
1984	18.87	16.60	26.15	35.32	26.67	30.87
1985	22.98	16.10	26.56	34.65	27.05	31.55
1986	24.33	16.32	26.26	33.62	25.97	30.29
1987	21.54	15.10	24.50	30.25	24.67	28.78
1988	18.68	14.65	23.50	27.88	23.68	28.78
1989	20.53	16.27	26.50	29.99	26.76	33.76
1990	23.55	18.40	30.80	33.08	31.03	39.15
1991	25.92	20.20	33.25	34.26	33.49	41.48
1992	27.18	19.99	31.60	31.60	31.85	38.84
1993	25.93	17.63	28.11	27.30	28.35	35.34
1994	21.75	15.91	25.47	24.11	25.66	33.26
1995	22.49	16.68	27.00	24.86	27.15	35.89
1996	22.68	17.75	28.60	25.59	28.78	37.68
1997	24.29	18.07	28.71	25.09	29.10	37.68
1998	29.23	18.40	29.69	25.55	29.92	38.79
1999	25.63	16.54	26.96	22.70	26.63	34.83
2000	28.14	16.38	27.67	22.54	27.79	36.84
2001	33.38	17.28	28.92	22.92	28.98	38.03
2002	31.33	17.04	28.62	22.33	28.28	36.13
2003	27.15	17.70	31.04	23.44	30.83	39.35
2004	29.40	21.67	36.45	25.21	29.13	38.70

^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.

293 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

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

294 Australian supply and disposal of lead

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production									
Mine a	kt	571	661	690	724	744	695	677	682
Bullion b	kt	171	157	165	153	201	181	143	153
Refined									
Primary	kt	185	199	233	215	275	267	247	234
Secondary	kt	26	30	33	33	34	36	35	36
Exports									
Ores and concentrates	kt	253	397	436	433	380	366	417	417
	\$m	140.2	213.0	264.1	318.2	323.3	288.7	387.2	489.4
Bullion	kt	167	140	135	119	153	150	113	164
	\$m	179.1	143.9	155.1	151.5	194.8	164.8	141.9	245.8
Refined metal	kt	177	201	258	199	236	269	231	243
	\$m	172.9	180.0	187.5	167.2	210.6	203.4	198.8	305.1
Consumption c									
	kt	64	62	44	41	39	38	38	33
Export unit value									
Ores and concentrates	A\$/t	554.8	536.2	605.3	735.1	850.2	788.9	927.6	1 174.3
Bullion	A\$/t	1 075.5	1 026.6	1 150.9	1 276.4	1 276.7	1 097.3	1 253.4	1 498.9
Refined	A\$/t	978.9	894.2	727.4	841.2	891.2	755.5	860.9	1 256.0

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

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

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

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Ores and concentrates ^b								
Belgium	0	52	58	73	64	57	50	30
China	29	26	35	70	74	42	64	83
Japan	40	46	36	39	48	31	43	22
Korea, Rep. of	10	64	72	81	100	130	98	98
United States	6	14	15	9	6	na	na	na
Other	18	29	41	13	12	4	8	31
Total	103	231	257	285	304	264	263	264
Bullion								
United Kingdom	156	134	138	109	148	151	133	150
Total ^c	171	134	138	109	148	151	133	150
Refined metal								
Chinese Taipei	32	25	34	44	30	30	34	12
Hong Kong, China	0	0	15	9	12	13	17	11
India	17	14	13	24	21	20	13	23
Indonesia	23	16	19	21	16	13	17	11
Japan	3	3	2	2	na	na	na	na
Korea, Rep. of	32	23	28	26	28	33	42	49
Malaysia	14	12	43	16	13	15	18	13
South Africa	13	12	11	9	11	12	11	13
Thailand	8	5	7	10	16	21	25	14
United States	0	0	41	31	37	53	20	na
Other	27	25	42	27	23	53	70	65
Total	169	135	255	219	207	263	267	211

^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: International Lead-Zinc Study Group, *Lead and Zinc Statistics*, London.

296 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	3 071	6 592	6 482	436	476.0
2002	2 831	3 565	3 110	6 675	6 647	483	452.6
2003	3 099	3 633	3 115	6 748	6 825	407	515.1
2004	3 071	3 653	3 183	6 836	7 082	295	888.4

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

297 World lead production, by region and country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Mine								
Africa	180	182	179	178	150	130	102	105
Morocco	77	80	80	82	77	62	41	46
South Africa	83	84	80	75	51	50	40	37
Americas	1 129	1 146	1 111	1 053	1 092	1 022	1 033	1 007
Canada	186	190	162	149	154	97	81	77
Mexico	174	166	126	138	149	139	144	142
Peru	262	258	271	271	289	297	308	306
United States	459	491	513	458	463	449	458	439
Asia	858	721	688	805	728	772	1 100	1 102
China	712	581	549	660	599	641	955	951
India	33	38	38	36	32	32	44	51
Kazakhstan	29	26	31	39	43	43	44	44
Korea, Dem. Rep. of	35	25	16	12	9	10	20	20
Other	49	51	54	58	45	43	37	36
Australia	486	584	633	650	714	658	648	642
Europe	377	357	355	360	324	248	216	217
Bulgaria	32	22	14	14	16	24	17	13
Ireland	45	36	39	57	45	32	50	65
Poland	55	60	63	51	53	57	42	40
Sweden	109	112	118	107	88	44	51	55
Other	136	127	121	131	122	91	56	44
Total	3 030	2 990	2 966	3 046	3 008	2 831	3 099	3 071
Refined ^b								
Africa	124	127	131	125	125	144	138	101
Americas	2 182	2 182	2 135	2 216	2 087	2 095	2 093	2 009
Canada	271	266	266	284	231	252	223	241
Mexico	259	259	199	241	236	234	240	243
Peru	98	104	111	116	118	120	112	120
United States	1 431	1 436	1 447	1 457	1 376	1 364	1 392	1 269
Other	123	117	112	118	111	110	106	136
Asia	1 602	1 643	1 882	2 163	2 209	2 361	2 630	2 880
China	708	757	918	1 100	1 195	1 325	1 564	1 812
India	60	66	64	67	63	78	71	51
Japan	297	302	293	312	302	286	295	283
Kazakhstan	82	92	159	208	159	152	141	149
Korea, Rep. of	182	180	190	220	211	243	230	233
Other	243	246	258	256	278	277	323	352
Australia	229	200	271	259	271	302	307	273
Europe	1 890	1 852	1 855	1 881	1 893	1 766	1 573	1 551
France	283	289	273	262	230	203	101	104
Germany	329	353	353	387	375	378	357	411
Italy	212	199	215	231	227	196	214	202
Spain	90	94	98	120	122	116	102	105
United Kingdom	399	370	372	338	382	368	320	243
Other	577	547	544	545	557	505	475	486
Other countries	6	6	6	11	9	10	1	7
Total	6 033	6 010	6 280	6 655	6 592	6 675	6 748	6 836

^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*, London.

298 Volume of world lead trade, by major countries

	1997 kt	1998 kt	1999 kt	2000 kt	2001 kt	2002 kt	2003 kt	2004 kt
Exports								
Ores and concentrates a								
Australia	103	231	257	285	304	264	263	264
Belgium	49	64	59	63	58	64	51	68
Canada	74	37	49	49	58	42	8	1
Ireland	43	35	40	57	49	31	49	64
Peru	142	142	148	145	151	179	178	186
South Africa	86	21	66	77	38	45	39	44
Sweden	51	79	71	73	68	36	34	34
United States	42	72	93	117	185	245	257	295
Refined lead								
Australia	169	135	255	219	207	263	267	211
Belgium	98	87	69	104	81	62	75	62
Bulgaria	65	na	70	72	68	58	60	54
Canada	159	157	166	167	144	163	149	150
China	186	236	450	443	448	399	438	448
France	74	86	76	76	61	56	11	5
Germany	74	93	80	114	145	133	100	79
Mexico	102	72	28	20	13	9	12	9
Morocco	52	59	54	56	52	70	58	21
Peru	na	100	101	111	115	109	109	113
Sweden	56	57	57	65	52	58	66	63
United Kingdom	79	100	81	84	89	100	62	38
United States	37	24	23	21	17	31	92	59
Imports								
Ores and concentrates a								
Belgium	37	58	58	71	61	69	48	72
Canada	35	23	56	47	53	68	70	93
China	71	127	93	158	255	216	374	454
France	123	120	115	133	109	88	0	0
Germany	37	85	111	115	146	122	108	121
Italy	55	59	110	95	66	63	52	59
Japan	116	118	122	128	117	117	109	94
Korea, Rep. of	52	99	90	126	145	138	151	43
United Kingdom	39	33	25	14	8	0	0	0
Refined lead								
Austria	44	50	36	39	40	42	38	30
Chinese Taipei	114	101	121	126	121	122	98	125
France	50	47	67	80	74	74	101	86
Germany	87	95	87	112	157	136	134	89
Italy	95	75	91	68	77	107	61	95
Korea, Rep. of	140	90	117	113	131	147	153	157
Malaysia	39	56	100	79	74	77	125	62
Singapore	23	36	96	80	89	86	17	41
Spain	81	95	100	104	114	171	119	150
Thailand	35	21	161	51	48	65	79	77
United Kingdom	17	29	38	105	31	29	20	35
United States	265	267	311	357	270	211	176	199

a Metal content. na Not available.

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

299 Summary of Australian statistics for limestone

	Production	Exports		Imports	
		Volume	Value	Volume	Value
	kt	t	\$'000	kt	\$'000
1970	9 996	na	na	511	708
1971	10 335	na	na	713	1 018
1972	10 494	na	na	605	1 001
1973	11 224	na	na	1 130	1 890
1974	11 046	na	na	1 432	2 572
1975	10 854	na	na	1 490	3 775
1976	10 583	na	na	1 527	4 475
1977	10 552	na	na	1 100	4 433
1978	10 924	na	na	1 380	7 085
1979	11 450	na	na	1 317	6 522
1980	11 730	na	na	1 077	4 928
1981	11 983	na	na	1 323	6 345
1982	12 698	15	1	977	4 344
1983	10 131	80	6	833	4 393
1984	9 608 a	35	8	940	5 381
1985	8 570 b	76	8	1 022	7 292
1986	10 747 a	21	10	996	10 794
1987	10 803 a	63	7	859	10 065
1988	10 614 a	30	6	1 004	11 480
1988-89	12 915	24	8	1 038	10 656
1989-90	13 283	15	17	na	9 382
1990-91	12 566	65	16	971	10 194
1991-92	na	258	49	1 161	12 412
1992-93	15 895	1 729	165	819	11 859
1993-94	na	18 893	1 145	1 011	17 156
1994-95	na	463	206	1 038	14 618
1995-96	na	133 080	1 889	991	14 777
1996-97	na	178 758	2 241	1 027	12 712
1997-98	na	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	15 740	241 526	4 683	595	9 995
2002-03	18 100	242 446	5 132	582	9 170
2003-04	na	332 931	6 516	547	8 695
2004-05	na	331 515	6 568	455	7 218

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

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

300 Australian production of limestone, by state

	New South Wales 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	4 071	1 776	689	3 835	2 478	1 894	14 743
2001-02	4 077	1 716	2 776	3 196	2 041	1 934	15 740
2002-03	4 534	1 822	2 791	4 884	2 742	1 961	18 100
2003-04	na	1 201	2 754	4 606	1 892	1 924	na

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

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

301 Australian imports of limestone and lime

	Limestone				Lime	
	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	396	58	455	7 218	1 176	191

na Not available.

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

302 Summary of Australian statistics for manganese

	Mine production (ore) kt	Exports		Prices ^b US\$/t
		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	2 177	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	1 912	1 213	na	91.20
2000	1 613	1 411	na	97.44
2001	2 084	1 591	na	101.28
2002	2 324	1 836	na	94.56
2003	2 555	2 308	na	103.06
2004	3 401	2 818	na	117.50

^a Data became confidential in 1999. ^b Before 1970, average unit export value in A\$/t; subsequently, high grade ore (48 per cent Mn) to Japan in US\$/t for Japanese fiscal year commencing 1 April. **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 Australian supply and disposal of manganese

		1997	1998	1999	2000	2001	2002	2003	2004
Production									
Manganese ore	kt	2 136	1 501	1 912	1 613	2 084	2 324	2 555	3 401
Exports									
Manganese ore s	kt	1 541	1 067	1 213	1 411	1 591	1 836	2 308	2 818
Ferromanganese a	kt	41	57	na	na	na	na	na	na
	\$m	18	37	na	na	na	na	na	na
Imports									
Ferromanganese	kt	7.8	11.7	6.1	4.7	5.8	6.0	6.9	9.8
	\$m	7.8	12.2	6.2	4.7	6.3	5.4	5.8	12.5
Ferrosilicon and silicomanganese	kt	36.1	34.2	33.1	29.1	28.1	30.7	31.7	33.5
	\$m	40.1	37.4	32.5	30.8	33.2	34.5	31.6	35.3
Prices									
Japanese negotiated b	US\$/t	99.86	97.92	91.20	97.44	101.28	94.56	103.06	117.50

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.

304 World production of manganese ore, by country

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	2 136	1 501	1 912	1 613	2 084	2 324	2 555	3 401
Brazil	2 400	1 940	1 656	1 925	1 970	2 529	2 544	3 375
China	6 000	5 300	5 300	5 300	5 300	5 300	5 300	5 300
Gabon	1 904	2 092	1 908	1 743	1 791	1 856	2 000	2 460
Georgia	50	50	50	63	98	103	174	175
Ghana	332	384	639	895	1 077	1 136	1 509	1 597
India	1 751	1 583	1 490	1 604	1 483	1 625	2 017	2 149
Kazakhstan	426	634	944	1 202	1 385	1 835	2 361	2 400
Mexico	507	533	445	411	259	172	294	357
South Africa	3 112	3 051	3 050	3 635	3 271	3 082	3 799	4 206
Ukraine	3 000	2 200	1 985	2 741	2 740	2 762	2 523	2 278
Others	279	277	251	263	268	131	259	280
Total	21 897	19 545	19 630	21 396	21 726	22 855	25 335	27 978

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

305 Summary of Australian statistics for nickel

	Production a							
	Smelter and refinery b				Exports f ^s	Exports s	Imports	Price g
	Mine	Intermediate products c	Refined	Refined				
			nickel class 2 d	nickel class 1 e				
kt	kt	kt	kt	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	7.4	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	2 687.0	92.1	14 782.6
2004	186.8	106.7	10.7	111.5	206.4	3 347.0	104.5	18 776.0

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*, The Hague, Netherlands; World Bureau of Metal Statistics, *World Metal Statistics*, London.

306 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	156	1 016	6 926.4
1998	1 117	1 034	157	1 009	4 631.0
1999	1 058	1 028	124	1 082	6 014.8
2000	1 177	1 082	93	1 123	8 649.2
2001	1 216	1 163	100	1 104	5 943.6
2002	1 229	1 185	97	1 176	6 771.6
2003	1 272	1 201	98	1 228	9 636.5
2004	1 327	1 210	98	1 253	13 837.9

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*, The Hague, Netherlands; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	52.5	53.9	53.4	50.2	52.9	55.0	53.5	14.3
South Africa ^b	34.8	36.4	36.2	36.6	33.4	32.7	40.8	1.0
Zimbabwe	17.6	17.4	17.2	13.6	19.5	22.3	12.7	13.3
Americas	257.5	264.1	238.5	252.9	274.8	290.4	281.4	313.6
Brazil	18.2	21.1	22.9	23.2	22.5	23.7	24.6	26.2
Canada	131.6	146.7	124.3	134.2	140.6	144.5	124.4	151.5
Colombia	25.2	28.1	28.3	27.7	38.4	44.0	47.9	48.8
Cuba	34.0	38.7	38.5	40.0	41.2	39.2	40.1	39.6
Dominican Republic	32.5	25.2	24.5	27.8	22.3	23.6	27.2	29.5
United States	16.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	0.0	0.0	0.0	0.0	9.7	15.5	17.2	18.0
Asia	178.3	175.1	187.7	221.8	213.5	220.3	238.1	249.4
China	39.9	40.1	44.8	50.9	49.5	53.5	64.7	72.6
Indonesia	10.0	8.5	9.2	10.1	10.3	8.9	8.3	7.3
Japan	128.4	126.5	133.7	160.7	153.7	157.9	165.1	169.5
Europe	406.0	417.3	419.2	403.1	448.5	438.9	449.6	466.2
Austria	2.0	1.8	1.5	1.3	1.5	1.0	1.5	1.3
Finland	39.2	46.0	52.8	54.3	54.6	55.3	52.5	49.6
France	10.7	11.8	11.7	12.3	13.0	11.4	10.6	9.6
Greece	17.6	15.0	13.0	17.5	17.7	19.2	18.0	18.1
Macedonia ^c	5.3	5.8	0.0	0.0	6.0	10.3	5.6	5.2
Norway	62.7	70.2	74.1	58.7	68.2	68.5	77.2	71.4
United Kingdom	36.1	39.1	38.1	38.0	33.8	33.8	24.2	38.6
Serbia	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Russian Federation	230.0	227.0	228.0	221.0	252.2	239.3	260.0	260.4
Ukraine	0.0	0.0	0.0	0.0	1.5	0.0	0.0	12.0
Oceania	118.0	124.1	128.9	156.1	173.3	180.7	180.1	165.2
Australia	73.6	79.6	83.6	112.2	128.1	132.2	129.4	122.2
New Caledonia (Fr)	44.3	44.5	45.3	43.9	45.2	48.5	50.7	43.0
World total	1 012.3	1 034.4	1 027.7	1 082.4	1 163.0	1 185.3	1 201.2	1 209.8

^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*, The Hague, Netherlands; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	68.8	74.0	73.1	69.3	67.7	73.2	81.5	75.4
Botswana	22.9	24.8	25.8	24.4	23.9	26.7	31.0	25.2
South Africa ^b	34.8	36.4	36.2	36.6	36.4	38.8	42.7	42.6
Zimbabwe	11.2	12.7	11.1	8.3	7.4	7.8	7.8	7.6
Americas	336.3	363.1	349.5	386.9	391.6	398.8	393.0	423.5
Brazil ^c	20.5	32.5	32.5	35.6	34.2	36.8	36.0	36.0
Canada	190.5	208.2	186.2	190.7	194.1	189.3	163.8	186.5
Colombia	31.2	29.4	39.3	58.9	53.0	58.5	70.8	75.0
Cuba	61.5	67.8	67.0	71.4	76.5	75.2	78.0	78.0
Dominican Republic ^c	32.5	25.2	24.5	27.8	22.3	23.5	27.4	30.0
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Venezuela	0.0	0.0	0.0	2.5	11.4	15.5	17.0	18.0
Asia	140.0	146.1	151.6	173.1	176.7	200.3	224.2	222.7
China	46.7	47.7	50.1	51.0	51.5	54.6	60.8	63.0
Indonesia	71.1	74.1	89.1	98.2	102.1	121.6	143.9	142.7
Kazakhstan	4.0	3.6	0.0	3.6	0.0	0.0	0.0	0.0
Philippines	18.1	20.7	12.4	20.2	23.1	24.1	19.5	17.0
Europe	267.1	264.9	254.7	260.2	265.7	267.5	269.6	300.3
Finland	3.3	2.0	0.7	3.3	2.6	2.5	2.6	3.4
Greece ^c	18.4	17.0	16.1	19.5	20.8	22.7	21.4	21.7
Macedonia ^d	5.3	7.2	0.0	0.0	3.0	5.2	5.6	5.2
Norway	2.5	3.0	2.9	2.3	2.8	2.1	0.0	0.0
Russian Federation	235.0	235.0	235.0	235.0	235.0	235.0	240.0	264.0
Serbia	2.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Ukraine	0.0	0.0	0.0	0.0	1.5	0.0	0.0	6.0
Oceania	261.0	269.2	229.0	287.8	314.6	288.2	303.1	305.5
Australia	123.9	143.9	119.0	170.2	197.0	188.2	191.2	186.8
New Caledonia (Fr)	137.1	125.3	110.1	117.6	117.6	100.0	111.9	118.7
World total	1 073.2	1 117.3	1 057.9	1 177.3	1 216.3	1 228.5	1 272.0	1 327.4

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

Sources: International Nickel Study Group, *World Nickel Statistics*, The Hague, Netherlands; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Africa	31.0	31.2	33.2	32.2	31.2	35.9	45.5	44.1
South Africa	30.0	30.0	32.0	31.0	30.0	34.7	44.0	42.6
Other	1.0	1.2	1.2	1.2	1.2	1.2	1.5	1.5
Americas	185.1	183.0	193.2	192.4	169.7	158.8	159.8	164.2
Brazil	14.4	15.7	19.6	21.7	21.1	23.6	25.3	23.3
Canada	10.6	11.5	15.0	15.0	14.8	10.5	10.0	8.0
Mexico	2.0	2.8	3.2	2.2	2.0	1.6	2.0	2.2
United States	155.6	150.0	152.0	150.0	129.1	120.6	120.0	128.2
Other	2.0	2.7	3.1	3.2	2.2	2.0	2.5	2.5
Asia	408.6	376.3	429.6	463.9	440.4	500.0	553.3	577.7
China	43.0	42.0	46.5	62.0	83.0	93.6	125.0	150.0
Chinese Taipei	68.0	70.0	89.0	90.0	81.0	91.0	97.0	86.4
Hong Kong, China	1.8	1.8	1.8	1.3	4.5	4.7	5.5	5.8
India	16.0	16.0	19.2	22.5	25.0	25.5	27.0	27.4
Japan	202.4	169.2	182.7	200.1	161.5	191.2	192.8	191.6
Korea, Rep. of	66.0	67.8	80.7	78.0	75.4	83.2	95.0	103.2
Thailand	2.0	1.6	2.1	2.0	2.2	2.2	2.0	2.4
Turkey	1.8	2.4	2.4	2.2	1.9	1.8	2.0	3.3
Other	7.6	5.5	5.2	5.8	5.9	6.8	7.0	7.6
Europe	389.8	416.6	423.5	432.0	460.5	478.1	467.5	465.2
Austria	3.0	3.3	3.3	4.2	5.6	4.8	5.0	5.5
Belgium–Luxembourg	28.0	30.0	28.0	28.5	28.2	32.5	38.0	41.5
Czech Republic	1.2	1.6	1.6	2.3	2.4	2.0	2.0	2.3
Finland	36.0	37.1	40.8	43.3	38.6	40.6	55.0	60.0
France	49.8	55.0	52.3	49.8	51.0	55.3	43.6	34.0
Germany	91.0	97.4	101.2	103.5	110.2	106.6	99.7	99.6
Italy	49.5	53.3	55.0	52.6	57.0	66.0	65.2	61.9
Norway	0.6	0.8	0.4	0.4	0.4	0.4	0.4	0.4
Poland	2.4	2.5	2.5	2.3	2.4	2.4	2.0	2.0
Russian Federation	20.0	18.0	17.0	21.0	28.0	27.0	27.0	26.6
Spain	30.0	31.0	37.8	37.8	43.8	47.0	47.0	45.0
Sweden	29.8	33.9	34.6	36.8	36.6	37.9	34.7	36.0
Switzerland	1.0	1.5	1.1	0.5	0.5	0.5	0.7	0.7
Ukraine	1.2	2.7	3.6	4.5	4.8	4.8	4.5	4.1
United Kingdom	33.0	31.5	29.2	32.4	37.5	34.4	28.7	33.3
Other	12.8	16.4	13.9	10.9	12.7	15.4	14.0	12.3
Oceania	1.9	2.1	2.1	2.0	2.0	2.0	2.0	2.0
Australia	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
New Zealand	0.3	0.5	0.5	0.4	0.4	0.4	0.4	0.4
World total	1 016.4	1 009.2	1 081.6	1 122.6	1 103.8	1 175.8	1 228.1	1 253.2

^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*, The Hague, Netherlands; World Bureau of Metal Statistics, *World Metal Statistics*, London; ABARE.

310 Summary of Australian statistics for primary petroleum ^a

	Production of crude oil condensate and LPG	Exports of crude oil and other refinery feedstocks ^b	Exports of liquefied petroleum gas	Imports of crude oil and other refinery feedstocks	Production of natural gas and ethane ^c	Exports of liquefied natural gas ^{ds}
	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	42 761	24 044	2 785	26 489	34.82	7.53
2001-02	40 712	23 936	3 211	27 308	36.20	7.60
2002-03	38 002	20 950	3 194	27 958	37.22	7.83
2003-04	32 515	17 526	2 916	23 498	37.41	7.91
2004-05	29 995	15 731	2 844	26 055	41.85	10.59

^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, *Overseas Trade, Part 1 – Exports and Imports*, cat. no. 5409.0, Canberra; DITR, *Australian Petroleum Statistics* (previously *Major Energy Statistics*), Canberra.

311 Summary of Australian statistics for refined petroleum products ^a

	Domestic		Imports		Exports ^c		Bunkers ^d
	Production	consumption ^b	Volume	Value	Volume	Value	
	ML	ML	ML	\$m	ML	\$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	4 863	664	2 769	520	371
1989-90	39 424	41 678	5 855	930	2 422	520	416
1990-91	40 487	41 468	3 821	727	2 952	787	631
1991-92	41 440	41 804	3 131	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	52 908	10 542	3 595	2 474	918	696
2004-05	44 555	53 909	11 200	5 127	1 847	844	951

^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, *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*).

312 Australian production of primary petroleum

	Crude oil	Condensate ^b	Crude oil and condensate	Liquefied petroleum gas	Natural gas ^c	Ethane
	ML ^a	ML	ML	ML	Gm ³	Gm ³
1966-67	645	na	645	na	0.00	0.00
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	31 664	7 041	38 705	4 558	34.34	0.48
2001-02	28 933	7 167	36 100	4 647	35.80	0.41
2002-03	25 816	7 503	33 321	4 681	36.81	0.41
2003-04	20 668	7 207	27 876	4 639	37.03	0.38
2004-05	18 172	7 197	25 368	4 628	41.20	0.65

^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. **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.

313 Australian production of refined petroleum products

	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	ML	ML	ML	ML	ML	ML	ML	ML	ML
Automotive gasoline	18 084	18 589	18 705	18 652	17 887	18 000	17 984	17 375	17 913
Automotive diesel oil	12 968	13 183	12 968	12 737	13 212	13 064	13 335	12 544	12 822
Aviation turbine fuel	5 284	5 423	5 218	5 539	5 836	5 390	5 149	4 964	5 325
Fuel oil	1 796	1 662	1 634	1 839	1 951	1 684	1 441	1 105	1 092
Liquefied petroleum gas a	1 605	1 518	1 691	1 674	1 795	1 718	1 657	1 062	995
Industrial and marine diesel fuel	45	48	32	60	98	105	117	84	22
Bitumen	638	689	695	719	693	725	751	678	1 091
Lubricants	788	771	680	649	641	564	521	259	202
Aviation gasoline	137	152	174	158	137	147	134	114	144
Heating oil	243	216	167	217	194	192	195	118	106
Other a	5 284	5 147	5 065	5 387	5 245	5 088	5 439	5 183	4 844
Total products	46 872	47 400	47 030	47 630	47 690	46 677	46 723	43 486	44 555

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.

314 Australian consumption of petroleum

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Crude oil and other refinery feedstock									
Stock	days a	23	22	23	24	29	26	26	22
Refinery input	ML	45 591	44 401	44 500	44 708	42 911	44 548	39 508	40 334
Refined products									
Automotive gasoline	ML	17 950	18 230	18 477	18 168	18 669	18 872	19 962	19 876
Automotive diesel oil	ML	12 564	12 825	13 245	12 952	13 441	13 888	14 462	15 185
Aviation turbine fuel	ML	4 863	4 791	5 023	5 319	4 603	4 250	4 329	4 730
Fuel oil	ML	1 774	1 861	2 200	1 705	1 777	1 423	1 466	1 595
Liquefied petroleum gas	ML	4 362	4 620	4 650	4 746	4 009	4 674	4 253	4 700 s
Industrial and marine diesel fuel	ML	62	14	18	22	46	18	17	15
Bitumen	ML	714	716	781	716	755	671	742	812
Lubricants	ML	517	502	526	532	555	598	625	470
Aviation gasoline	ML	104	106	103	101	97	90	90	91
Heating oil	ML	106	77	81	63	50	48	46	34
Other b	ML	5 047	5 278	5 303	6 138	6 300 s	5 600 s	5 900 s	5 200 s
Total products	ML	48 063	49 021	50 407	50 462	50 302	50 132	51 891	52 707

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.

315 Australian production of primary petroleum, by basin

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	ML	ML	ML	ML	ML	ML	ML	ML
Crude oil								
Adavale	0	0	0	0	0	2	0	0
Amadeus	131	107	91	80	72	59	58	60
Bonaparte	804	663	6 177	8 898	5 985	4 918	2 589	1 868
Bowen–Surat	80	64	35	45	39	27	28	24
Canning	8	8	5	6	4	4	3	2
Carnarvon								
Barrow Island	744	711	683	646	580	547	502	448
North West Shelf	3 552	1 883	5 495	6 815	8 609	8 317	7 234	6 807
Other	6 439	6 261	5 191	5 739	4 855	4 284	3 116	3 318
Cooper–Eromanga								
Queensland	609	585	512	474	432	450	390	387
South Australia	629	559	422	439	490	413	447	385
Gippsland	12 769	9 088	10 987	8 523	7 860	6 676	5 954	4 359
Otway	0	0	0	0	0	0	0	0
Perth	13	9	6	1	5	119	345	507
Total	25 779	19 938	29 604	31 664	28 933	25 816	20 668	18 166
Condensate								
Adavale	0	0	0	0	0	1	0	0
Amadeus	0	0	0	0	0	0	0	0
Bonaparte	0	0	0	0	0	0	0	0
Bowen–Surat	28	18	18	18	13	12	15	23
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	185	202	300	365	366	349	203	120
North West Shelf	6 545	6 346	6 038	5 121	5 224	5 705	5 611	5 544
Other	72	71	205	118	110	101	142	250
Cooper–Eromanga								
Queensland	142	181	198	141	203	239	242	270
South Australia	412	490	447	467	378	349	176	221
Gippsland	789	644	652	805	859	743	810	766
Otway	6	7	2	4	12	2	7	7
Perth	2	1	2	2	1	2	1	1
Total	8 183	7 960	7 861	7 041	7 167	7 504	7 208	7 201
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	54	25	20	22	18	18	20	24
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	0	0	0	0	0	0	0	0
North West Shelf	1 280	1 355	1 564	1 493	2 028	1 911	1 817	1 963
Other	0	0	0	0	0	0	0	0
Cooper–Eromanga								
Queensland	0	0	0	0	0	0	0	0
South Australia	810	890	895	816	768	783	827	663
Gippsland	2 292	1 634	1 889	1 725	1 799	1 970	1 976	1 977
Otway	0	0	0	0	0	0	0	0
Perth	0	0	0	0	0	0	0	0
Total	4 437	3 904	4 368	4 056	4 612	4 682	4 639	4 628

Continued

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

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	GL	GL	GL	GL	GL	GL	GL	GL
Naturally occurring ethane and natural gas ^a								
Adavale	43	28	21	19	15	9	8	10
Amadeus	461	459	476	459	471	452	424	479
Bonaparte	0	0	0	0	0	0	0	0
Bowen–Surat	723	682	713	614	518	641	613	697
Canning	0	0	0	0	0	0	0	0
Carnarvon								
Barrow Island	500	606	942	929	452	1 116	1 023	545
North West Shelf	15 837	16 343	16 357	16 042	16 561	17 753	17 827	21 437
Other	1 031	1 171	1 027	1 384	1 359	1 113	1 533	2 364
Cooper–Eromanga								
Queensland	0	0	0	0	0	0	19	0
South Australia	5 829	6 274	6 456	5 764	6 308	5 753	4 288	4 149
Gippsland	5 971	5 308	5 329	6 304	6 355	6 432	7 487	7 477
Otway	154	157	209	203	316	100	260	281
Perth	339	215	263	286	188	197	178	236
Total	30 889	31 243	31 792	32 004	32 543	33 568	33 659	37 674

^a Does not include methane or ethane produced from other than natural gas fields.

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

316 Volume of Australian trade in petroleum

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Exports									
Automotive gasoline	ML	1 521	1 533	1 371	1 288	1 186	1 058	774	774
Diesel fuel	ML	1 305	1 231	1 070	1 276	948	1 052	872	367
Aviation turbine fuel	ML	658	547	579	755	549	645	528	240
Fuel oil	ML	633	253	585	724	293	95	81	201
Aviation gasoline	ML	56	74	79	28	71	52	36	38
Kerosene	ML	33	31	10	10	2	0	0	0
Lubricants	ML	401	319	258	278	163	163	122	156
Other	ML	335	249	164	203	197	75	60	70
Total refined products	ML	4 941	4 236	4 116	4 564	3 409	3 140	2 474	1 847
Liquefied petroleum gas ^a	ML	2 824	2 486	2 857	2 785	3 211	3 194	2 916	2 844
Bunkers ^b	ML	2 203	2 305	2 314	2 291	2 267	2 238	2 216	2 207
Crude oil and other refinery feedstock	ML	14 785	14 291	20 877	24 044	23 936	20 950	17 526	15 731
Liquefied natural gas ^c	MT	7.650	7.819	7.923	7.530	7.600	7.826	7.914	10.589
Imports									
Automotive gasoline	ML	483	890	1 065	1 189	1 436	1 673	3 242	3 125
Diesel fuel	ML	770	1 435	1 400	1 129	1 280	1 627	3 374	3 961
Aviation turbine fuel	ML	111	140	171	387	225	429	681	984
Fuel oil	ML	795	596	799	814	557	611	1 285	1 281
Lubricants	ML	39	57	82	33	57	216	195	327
Liquefied petroleum gas	ML	511	496	519	633	588	299	785	540
Other	ML	555	514	597	561	511	643	979	981
Total refined products	ML	3 263	4 129	4 632	4 746	4 655	5 497	10 542	11 200
Crude oil and other refinery feedstock	ML	25 017	29 729	26 936	26 489	27 308	27 958	23 498	26 055

^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.

317 Value of Australian trade in petroleum

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Exports								
Automotive gasoline	304	262	366	500	389	367	280	339
Diesel fuel	256	198	268	498	308	366	292	166
Aviation turbine fuel	135	93	169	301	184	228	172	108
Fuel oil	86	28	116	183	70	29	21	51
Aviation gasoline	20	24	34	17	33	29	20	26
Kerosene	6	5	2	5	1	0	0	0
Lubricants	214	196	184	238	164	141	100	112
Other products	76	60	65	103	85	39	33	41
Total refined products	1 097	866	1 202	1 844	1 234	1 198	918	844
Liquefied petroleum gas	367	297	648	830	721	855	647	804
Bunkers ^a	505	397	666	899	760	775	696	951
Crude oil and other refinery feedstock	2 251	1 881	5 292	8 137	6 390	6 402	5 055	6 330
Liquefied natural gas	1 599	1 425	1 949	2 671	2 613	2 607	2 174	3 199
Imports								
Automotive gasoline	93	134	321	432	448	569	1 168	1 459
Diesel fuel	149	225	377	438	414	561	1 134	1 941
Aviation turbine fuel	22	24	48	154	68	146	220	483
Fuel oil	96	59	150	222	143	180	313	364
Lubricants	81	107	111	60	126	190	206	288
Liquefied petroleum gas	68	64	108	160	116	76	166	143
Other products	257	255	262	350	310	328	388	448
Total refined products	766	868	1 375	1 816	1 625	2 050	3 595	5 127
Crude oil and other refinery feedstock	3 707	3 794	6 313	8 753	7 458	8 610	6 594	9 996

^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.

318 Australian exports of petroleum, by destination ^a

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity									
Crude oil and other refinery feedstock									
China	ML	319	758	1 675	912	1 160	1 699	2 389	732
Chinese Taipei	ML	2 066	2 200	2 561	3 712	1 920	580	125	916
Japan	ML	2 832	2 954	3 528	4 068	3 168	3 402	2 079	1 927
Korea, Rep. of	ML	1 564	2 005	4 338	4 358	5 521	4 012	3 778	2 787
New Zealand	ML	880	779	556	613	1 426	784	722	1 425
Singapore	ML	1 613	1 691	3 831	6 079	6 215	6 567	3 948	2 861
United States	ML	3 558	2 768	3 462	2 962	2 674	2 944	1 808	1 154
Other	ML	1 954	1 135	927	1 339	1 851	962	2 677	3 929
Total	ML	14 785	14 291	20 877	24 044	23 936	20 950	17 526	15 731
Liquefied petroleum gas									
China	ML	771	778	606	416	441	154	696	598
Japan	ML	1 541	1 167	1 841	2 241	2 575	2 783	2 109	2 081
Korea, Rep. of	ML	0	215	188	61	127	234	0	81
Other	ML	511	326	222	67	68	23	111	84
Total b	ML	2 824	2 486	2 857	2 785	3 211	3 194	2 916	2 844
Refined products									
Fiji	ML	633	576	624	748	473	384	122	7
Japan	ML	197	180	67	18	71	26	29	53
New Zealand	ML	1 206	1 305	1 245	1 086	1 247	1 250	828	1 113
Singapore	ML	906	319	561	697	367	246	127	471
Other Pacific	ML	1 681	1 627	1 296	1 564	921	861	818	37
United States	ML	233	179	254	328	153	99	123	0
Other	ML	87	50	70	123	177	273	427	164
Total	ML	4 941	4 236	4 116	4 564	3 409	3 140	2 474	1 847
Value ^c									
Crude oil and other refinery feedstock									
China	\$m	52	106	431	317	316	528	671	309
Chinese Taipei	\$m	304	287	629	1 284	508	179	33	372
Japan	\$m	443	400	899	1 394	854	1 058	582	782
Korea, Rep. of	\$m	226	253	1 117	1 486	1 490	1 217	1 057	1 091
New Zealand	\$m	155	115	142	213	406	256	238	602
Singapore	\$m	243	211	943	1 973	1 597	1 956	1 118	1 080
United States	\$m	517	367	892	1 012	693	883	527	473
Other	\$m	311	141	239	458	525	324	828	1 620
Total	\$m	2 251	1 881	5 292	8 137	6 390	6 402	5 055	6 330
Liquefied petroleum gas									
China	\$m	94	97	131	125	96	36	159	169
Japan	\$m	196	136	432	667	580	755	466	595
Korea, Rep. of	\$m	0	26	42	19	30	59	0	18
Other	\$m	78	37	43	19	15	6	22	21
Total b	\$m	367	297	648	830	721	855	647	804
Refined products									
Fiji	\$m	128	99	165	293	161	140	43	8
Japan	\$m	41	37	23	9	25	14	13	22
New Zealand	\$m	273	262	379	461	437	460	310	516
Singapore	\$m	165	58	117	201	112	95	41	170
Other Pacific	\$m	411	348	414	669	367	349	290	41
United States	\$m	48	39	72	143	56	39	47	0
Other	\$m	30	24	31	68	76	101	174	86
Total	\$m	1 097	866	1 202	1 844	1 234	1 198	918	844

^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.

319 Australian imports of petroleum, by source

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	7 131	9 648	4 176	3 788	6 795	5 380	4 012	3 328
Malaysia	ML	888	1 576	2 811	2 249	2 290	2 299	4 073	4 761
New Zealand	ML	1 544	1 792	1 251	1 104	1 089	990	708	663
Other Middle East	ML	432	1 751	985	453	42	334	42	158
Papua New Guinea	ML	2 987	3 228	3 549	2 772	2 208	1 683	1 189	1 717
Qatar	ML	854	211	470	439	646	191	0	77
Saudi Arabia	ML	3 706	2 828	3 294	4 016	3 004	3 680	1 517	3 101
Singapore	ML	622	257	61	287	554	719	596	652
United Arab Emirates	ML	3 081	1 197	1 642	3 170	2 305	2 294	2 207	1 917
Viet Nam	ML	3 259	6 086	6 157	6 282	5 652	6 699	5 778	6 560
Other	ML	512	1 156	2 538	1 930	2 724	3 690	3 375	3 122
Total	ML	25 017	29 729	26 936	26 489	27 308	27 958	23 498	26 055
Refined products									
Indonesia	ML	84	56	41	121	80	57	281	162
Korea, Rep. of	ML	47	139	406	144	289	144	280	237
Malaysia	ML	64	42	69	8	27	45	97	93
Middle East	ML	375	666	555	846	474	140	1 036	588
New Zealand	ML	115	51	83	20	42	17	3	4
Singapore	ML	943	1 726	1 730	1 692	2 110	2 832	5 904	7 395
United States	ML	430	365	379	401	462	407	434	423
Other a	ML	1 206	1 084	1 368	1 549	1 171	1 855	3 370	2 334
Total	ML	3 263	4 129	4 632	4 781	4 655	5 497	11 405	11 236
Value									
Crude oil and other refinery feedstock									
Indonesia	\$m	1 109	1 266	942	1 295	1 846	1 671	1 141	1 335
Malaysia	\$m	134	214	666	770	647	735	1 199	1 925
New Zealand	\$m	231	234	307	379	309	316	212	275
Other Middle East	\$m	59 s	214	227	138	12	101	11	59
Papua New Guinea	\$m	463	435	867	974	601	527	347	711
Qatar	\$m	116	27	90	141	191	58	0	24
Saudi Arabia	\$m	493	317	751	1 201	758	1 074	408	1 114
Singapore	\$m	96	32	13	98	149	224	152	201
United Arab Emirates	\$m	442	146	363	1 041	674	664	584	659
Viet Nam	\$m	477	765	1 454	2 115	1 528	2 095	1 584	2 517
Other	\$m	86	143	633	601	743	1 145	956	1 174
Total	\$m	3 707	3 794	6 313	8 753	7 458	8 610	6 594	9 996
Refined products									
Indonesia	\$m	13	11	11	41	23	17	92	75
Korea, Rep. of	\$m	18	23	121	64	101	56	108	126
Malaysia	\$m	12	11	18	3	11	18	36	49
Middle East	\$m	64	91	112	243	94	39	260	165
New Zealand	\$m	19	7	19	8	12	6	3	4
Singapore	\$m	194	281	481	655	684	1 000	2 061	3 537
United States	\$m	256	251	240	255	321	277	236	250
Other a	\$m	190	194	374	547	379	637	799	922
Total	\$m	766	868	1 375	1 816	1 625	2 050	3 595	5 127

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.

320 World crude oil supply and demand ^a

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Supply									
OPEC ^b	mbd	29.9	30.8	29.4	30.8	30.1	28.8	30.7	33.0
Non-OPEC									
Asia Pacific	mbd	2.8	3.0	3.0	3.2	3.2	3.1	3.3	3.3
China	mbd	3.2	3.2	3.2	3.2	3.3	3.4	3.4	3.5
Europe	mbd	8.0	8.1	8.3	8.4	8.4	8.5	8.3	8.3
Mexico	mbd	3.4	3.5	3.4	3.5	3.6	3.6	3.8	3.4
Middle East Africa	mbd	4.6	4.6	4.7	4.8	4.9	5.1	5.0	5.3
North America	mbd	11.2	11.0	10.7	10.8	10.9	11.0	10.8	10.8
Russian Federation	mbd	6.1	6.1	6.2	6.5	7.0	7.7	8.5	9.2
South America	mbd	3.4	3.6	3.8	3.8	3.8	3.9	4.0	4.1
Total ^c	mbd	74.3	75.5	74.1	76.7	76.7	76.9	79.6	83.1
Demand									
Africa	mbd	2.3	2.4	2.3	2.4	2.5	2.7	2.7	2.8
China	mbd	4.1	4.2	4.5	4.8	4.9	5.0	5.5	6.4
Japan and Korea, Rep. of	mbd	8.0	7.4	7.6	7.6	7.5	7.6	7.8	7.5
Latin America	mbd	6.3	6.7	6.8	6.9	6.8	6.8	6.7	6.8
Middle East	mbd	4.2	4.2	4.3	4.7	4.9	5.4	5.6	5.6
North America	mbd	20.9	21.2	21.9	22.1	21.9	22.2	22.6	23.4
Russian Federation	mbd	2.9	2.4	2.4	2.4	2.5	2.5	2.5	2.6
Western Europe ^{4 d}	mbd	8.6	8.7	8.5	8.4	8.4	8.3	8.3	8.3
Other Asia Pacific	mbd	7.8	7.7	8.0	8.3	8.4	8.9	9.1	9.6
Other Europe	mbd	8.7	8.8	8.5	8.6	8.7	8.6	8.9	9.2
Total	mbd	73.8	73.5	74.7	76.2	76.5	77.9	79.7	82.2
OECD stocks ^e	days	56	56	51	52	54	50	50	51

^a Includes crude oil, marine bunkers, refinery fuel, nonconventional oil and natural gas liquids. ^b Includes natural gas liquids produced by OPEC (around 3 million barrels a day). ^c Includes around 1.7 million barrels a day net gain in the processing of primary fuels other than crude oil. ^d France, Germany, Italy and United Kingdom. ^e Industry stocks measured in days of forward consumption at 31 December.

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

321 Prices for crude oil, by origin ^a

	World trade weighted b US\$/bbl	Dubai c US\$/bbl	Brent d US\$/bbl	WTI e US\$/bbl	Gippsland f US\$/bbl	
1987 quarter						
March	17.28	16.91	18.46	17.28	28.59	(Australian IPP)
June	17.57	17.07	18.53	19.30	28.34	(Australian IPP)
September	17.73	17.40	19.11	20.47	28.63	(Australian IPP)
December	17.12	16.34	17.97	18.65	27.44	(Australian IPP)
1988 quarter						
March	15.20	14.66	15.53	16.68	16.47	(Australian IPP)
June	15.00	14.55	15.90	17.52	16.23	(Australian IPP)
September	13.34	12.09	13.78	14.54	14.36	(Australian IPP)
December	11.72	11.09	13.45	14.70	13.18	(Australian IPP)
1989 quarter						
March	15.49	15.00	17.39	18.46	17.80	
June	17.33	15.72	18.20	20.25	19.17	
September	16.26	15.32	17.54	19.85	17.75	
December	17.42	16.18	19.04	20.02	18.86	
1990 quarter						
March	18.14	16.63	19.76	21.75	19.97	
June	14.43	14.01	16.35	17.84	16.50	
September	24.12	25.58	26.64	26.57	24.29	
December	29.15	27.53	32.27	31.88	34.08	
1991 quarter						
March	17.98	15.85	20.37	21.12	21.50	
June	16.56	15.57	18.93	20.86	19.05	
September	17.61	16.91	19.91	21.66	20.33	
December	18.57	17.54	20.48	21.75	22.45	
1992 quarter						
March	16.37	15.55	17.89	18.86	18.78	
June	18.49	17.94	20.15	21.17	20.10	
September	19.04	18.42	20.27	21.33	22.15	
December	18.08	17.26	19.20	20.46	20.27	
1993 quarter						
March	16.87	15.84	18.29	19.83	19.25	
June	16.95	15.93	18.16	19.74	19.25	
September	15.16	14.32	16.46	17.63	17.61	
December	14.02	13.54	14.86	16.83	15.67	
1994 quarter						
March	13.34	12.75	14.00	14.83	14.86	
June	15.28	14.74	16.17	17.81	15.74	
September	16.45	15.85	16.95	18.50	17.43	
December	16.15	15.63	16.57	17.66	16.38	
1995 quarter						
March	16.90	16.34	17.04	18.40	17.80	
June	17.80	16.96	18.12	19.38	18.36	
September	15.98	15.33	16.15	17.87	17.01	
December	16.55	15.87	17.03	18.17	17.62	
1996 quarter						
March	18.13	16.49	18.64	19.78	19.53	
June	19.09	17.24	19.24	21.72	19.26	
September	20.22	19.51	21.10	22.43	20.08	
December	22.75	21.64	23.30	24.65	23.68	

Continued

321 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
1997 quarter					
March	20.69	20.93	19.94	22.81	22.68
June	17.53	18.04	17.83	19.98	19.56
September	17.59	17.73	18.73	19.80	19.46
December	17.80	17.97	18.93	19.92	20.23
1998 quarter					
March	12.78	12.59	14.54	16.01	15.01
June	11.95	12.30	13.86	14.72	14.62
September	11.87	11.69	12.75	13.59	12.85
December	11.11	11.56	11.73	13.00	12.57
1999 quarter					
March	10.93	11.13	11.53	13.11	11.57
June	15.33	15.28	15.85	17.67	16.15
September	20.10	19.68	20.89	21.63	20.00
December	23.46	23.55	24.51	26.72	24.34
2000 quarter					
March	26.33	25.57	26.72	29.05	26.75
June	26.31	24.17	25.29	27.33	27.98
September	28.79	25.72	26.95	28.97	31.89
December	28.58	28.56	30.77	32.28	31.10
2001 quarter					
March	24.33	23.63	26.14	28.60	26.81
June	25.57	25.15	27.28	27.93	28.18
September	24.24	24.16	25.40	26.78	25.26
December	18.40	18.52	19.40	20.50	20.27
2002 quarter					
March	19.78	20.32	21.29	21.82	21.03
June	23.95	24.33	25.06	26.29	25.49
September	25.54	25.49	26.81	28.26	26.95
December	25.41	25.03	26.76	28.18	27.86
2003 quarter					
March	29.71	28.62	31.58	34.17	32.40
June	24.37	24.47	26.14	29.06	27.05
September	27.25	26.88	28.87	31.07	29.15
December	27.67	27.22	29.38	30.44	30.85
2004 quarter					
March	29.60	29.80	31.98	35.17	34.25
June	32.78	32.33	34.71	38.35	37.32
September	36.50	36.53	41.61	43.91	43.54
December	38.74	36.38	44.14	48.30	45.68
2005 quarter					
March	42.34	41.84	47.60	49.71	49.84
June	47.13	48.15	51.58	53.16	53.11

^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.

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

322 Summary of Australian statistics for salt

	Production kt	Exports		
		Volume kt	Value \$m	Unit value ^a \$/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	10 569 d	10 114	200.6	19.83
2004	11 221 d	11 181	194.6	17.40

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; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra.

323 Australian supply and disposal of salt

	Unit	1998	1999	2000	2001	2002	2003	2004
Production								
Queensland	kt	342	249	137	150	217	273	277
South Australia	kt	501	587	1 004	693	577	560	556
Western Australia ^a	kt	8 191	9 052	7 706	8 410	9 167	9 736	10 388
Total	kt	9 033	9 888	8 847	9 254	9 961	10 569	11 221
Exports (all types)								
Total	kt	8 701	8 418	8 257	8 817	9 504	10 114	11 181
	\$m	233	214	222	267	260	201	195
Imports								
Common salt	t	12 310	14 070	14 988	14 869	17 285	15 157	16 578
	\$'000	3 299	3 327	3 447	3 591	4 445	4 540	5 280

^a Sales.

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.

324 World production of salt, by country

	1997	1998	1999	2000	2001	2002	2003	2004
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Argentina	0.8	0.8	1.3	1.0	1.0	1.0	na	na
Australia	8.9	9.0	9.9	8.8	9.3	10.0	10.6	11.2
Brazil	6.5	6.8	6.0	6.1	5.6	5.6	6.1	6.1
Canada	13.3	13.3	12.7	12.2	13.7	12.3	13.3	13.3
Chile	5.5	6.2	6.1	5.1	6.0	6.0	na	na
China ^a	30.8	22.4	28.1	31.3	34.1	32.8	32.4	34.0
Egypt	1.2	2.4	2.4	2.4	2.4	2.4	na	na
France	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Germany	15.8	15.7	15.7	15.7	15.7	15.7	15.7	16.0
India	14.3	12.0	14.5	14.5	14.5	14.5	15.0	15.0
Iran	1.4	1.9	1.6	1.6	2.0	2.0	na	na
Italy	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Japan	1.3	1.3	1.3	1.4	1.4	1.4	na	na
Mexico	7.9	8.4	8.2	8.9	8.5	8.5	8.0	8.0
Netherlands ^b	5.6	5.5	5.0	5.0	5.0	5.0	na	na
Poland	3.9	4.0	4.2	4.2	4.2	4.3	1.5	2.0
Romania	2.6	2.2	2.2	2.3	2.2	2.3	na	na
Russian Federation	2.1	2.2	3.2	3.2	2.8	2.8	2.8	3.0
Spain	4.0	3.5	3.2	3.2	3.2	3.2	3.2	3.2
Turkey	2.3	2.2	2.1	2.1	2.1	2.1	na	na
Ukraine	2.5	2.5	2.2	2.3	2.3	2.3	2.3	2.5
United Kingdom	6.6	6.6	5.8	5.8	5.8	5.8	5.8	5.8
United States	41.5	41.3	45.0	45.6	44.8	40.3	43.7	45.1
Other	17.6	19.2	18.7	18.7	19.9	19.2	39.8	40.0
Total	207.0	200.0	210.0	212.0	217.0	210.0	210.0	215.0

^a Marketable salt. ^b Includes the Antilles. ^{na} Not available.

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

325 Summary of Australian statistics for silica

	Production	Exports a		Imports	
	Volume	Volume	Value	Volume	Value
	kt	kt	\$'000	t	\$'000
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	4 461	2 629	57 598	4 084	1 933
2002-03	3 949	2 794	59 900	4 330	2 004
2003-04	na	2 687	62 290	3 477	1 572
2004-05	na	1 844	52 643	2 708	1 375

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; 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; state mines departments and their equivalents; ABARE.

326 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	441.0	531.0	2 488.0	653.0	185.0	163.3	4 461.4
2002-03	492.0	20.0	2 406.3	752.5	149.4	128.9	3 949.1
2003-04	na	na	2 510.4	644.2	239.1	135.2	na

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; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842-1964*, Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

327 Australian imports of silica based products

	Silicon		Ferrosilicon		Ferrosilicomanganese		Piezoelectric crystals
	Volume 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

a Year ended 30 June. na Not available.

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

328 Summary of Australian statistics for silver

	Production		Exports a		Price b \$/kg
	Mine t	Refinery t	Volume t	Value \$m	
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	2 209	650	477	150	308.13

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.

329 Australian supply and disposal of silver

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Production									
Mine									
New South Wales	t	200	151	147	146	133	88	82	91
Queensland	t	574	985	1 187	1 576	1 545	1 760	1 582	1 910
Western Australia	t	83	99	133	137	107	68	70	41
South Australia	t	15	15	25	34	34	26	20	34
Tasmania	t	168	147	171	118	104	78	67	89
Northern Territory	t	68	76	54	47	48	50	46	45
Total s	t	1 107	1 473	1 715	2 059	1 970	2 070	1 868	2 209
Refinery	t	174	292	437	404	584	644	649	650
Exports									
Refined silver									
India	t	29	54	140	131	190	192	124	92
Japan	t	102	131	162	185	178	143	204	267
Korea, Rep. Of	t	11	19	39	53	42	34	34	37
Singapore	t	1	40	1	17	72	5	9	20
United Kingdom	t	0	67	10	0	0	42	0	0
Other	t	71	54	76	42	41	125	62	59
Total	t a	215	365	428	427	524	540	432	477
	\$m b	54	123	117	138	159	154	109	150
Silver content of lead bullion	t	494	405	419	332	411	455	402	419
Prices									
World	US\$/troy oz	489.12	553.74	524.97	499.91	434.98	460.04	487.65	664.98
Australia c	A\$/kg	220.70	291.56	268.62	285.31	287.72	290.78	258.89	308.13

a Refined bullion only. **b** Includes refined bullion, powder, unwrought silver and semimanufactured forms. **c** Pasmaico 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.

330 World mine production of silver

	1996	1997	1998	1999	2000	2001	2002	2003	2004
	t	t	t	t	t	t	t	t	t
Australia s	974	1 107	1 473	1 715	2 059	1 970	2 070	1 868	2 209
Bolivia	385	386	404	424	434	408	450	464	201
Brazil	140	135	130	130	130	130	130	130	130
Canada	1 309	1 224	1 196	1 246	1 212	1 320	1 408	1 309	1 336
Chile	1 130	1 088	1 337	1 380	1 245	1 349	1 205	1 313	1 330
China	1 100	1 265	1 260	1 330	1 330	1 908	2 000	2 000	2 000
Indonesia	255	279	349	292	335	348	289	377	377
Japan	85	87	95	94	104	80	81	79	76
Kazakhstan	414	389	536	816	816	943	856	805	690
Korea, Dem. Rep. of	200	200	200	200	200	50	50	50	50
Mexico	2 528	2 679	2 688	2 483	2 483	2 760	2 749	2 551	2 531
Morocco	200	262	307	270	290	240	277	200	200
Peru	1 912	2 059	2 004	2 231	2 438	2 571	2 870	2 921	3 060
Poland	935	1 038	1 097	1 093	1 088	1 231	1 342	1 332	1 330
Russian Federation	250	250	240	240	240	400	400	400	400
South Africa	168	153	145	152	144	112	111	87	71
Spain	103	66	66	66	66	66	66	66	66
Sweden	256	283	280	284	304	285	294	307	330
United States	1 570	2 182	2 060	1 952	2 017	1 606	1 419	1 236	1 246
Uzbekistan	150	150	150	150	150	218	157	187	187
Other	737	677	663	658	660	819	799	835	797
Total a	14 802	15 959	16 677	17 208	17 747	18 815	19 030	18 517	18 591

a Excludes countries for which data are not available. s ABARE estimate.

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

331 Summary of Australian statistics for talc

	Production b t	Exports a			Imports a	
		Volume t	Value \$'000	Unit value \$/t	Volume t	Value \$'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	na	129 756	19 104	147.23	1 853	827

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; Bureau of Mineral Resources, *Australian Mineral Industry Annual Review*, AGPS, Canberra; Kalix, Z., Fraser, L.M. and Rawson, R.I., *Australian Mineral Industry: Production and Trade, 1842-1964*, Bureau of Mineral Resources, Canberra; state mines departments and their equivalents; ABARE.

332 Australian production of talc and pyrophyllite, by state

	Talc				Pyrophyllite
	New South Wales	South Australia	Western Australia	Australia	New South Wales
	t	t	t	t	t
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	na
2001-02	0	8 372	152 369	160 741	868
2002-03	0	8 616	157 364	165 980	na
2003-04	0	6 440	116 640	123 080	na

na Not available.

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

333 Australian exports of talc, by destination ^a

	Belgium	Japan	Nether-lands	New Zealand	Korea, Rep. of	United States	Other	Total	
								Volume	Value
	t	t	t	t	t	t	t	t	\$'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

a Includes pyrophyllite. **b** Excludes uncrushed product from 1 June 1997 to 31 May 1999. **na** Not available.

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

334 Australian imports of talc, by source ^a

	Norway	United Kingdom	United States	Other	Total	
					Volume	Value
	t	t	t	t	t	\$'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

^a Includes pyrophyllite. **na** Not available.

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

335 World mine production of talc, by country ^a

	Australia 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	2 526	9 470
2000	180	452	3 500	743	776	851	2 294	9 640
2001	173	450	3 500	668	1 100	853	2 176	8 920
2002	162	450	3 600	665	1 100	775	2 893	8 870
2003	166	400	3 600	640	940	869	2 305	8 920
2004	123	500	2 700	600	950	911	2 336	8 120

^a Includes pyrophyllite. ^b Excludes Hong Kong. **na** Not available.

Sources: BMR, *Australian Mineral Industry Annual Review*, AGPS, Canberra; US Department of the Interior, US Geological Survey, *Mineral Commodity Summaries*, Washington DC; ABARE.

336 Summary of Australian statistics for tin

	Production		Exports		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	4 663.2
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	10 306	684	10 066	73	8 831.9
1999	10 040	586	10 556	70	8 373.8
2000	9 070	733	9 057	67	9 335.9
2001	9 983	1 094	9 325	66	8 646.7
2002	7 078	791	6 995	43	7 469.4
2003	3 910	597	2 885	18	7 521.1
2004	1 306	481	218	0	11 581.3

^a Metallic content. ^b Tin content of all ores, concentrates, slags, residues and refined tin. ^c London Metal Exchange cash settlement price for refined tin, 99.75 per cent purity, expressed in Australian dollars; between 1 January 1986 and 31 May 1989, Kuala Lumpur Tin Market. ^d Excludes content of copper-tin concentrate.

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

337 Australian supply and disposal of tin

	Unit	1997	1998	1999	2000	2001	2002	2003	2004
Production									
Mine a									
New South Wales	t	30	30	0	0	0	750	1 031	429
Queensland	t	70	40	40	10	0	0	0	0
Tasmania	t	9 610	9 582	9 414	8 327	8 961	5 609	2 282	396
Western Australia	t	646	684	586	733	1 022	719	597	481
Total	t	10 326	10 306	10 040	9 070	9 983	7 078	3 910	1 306
Refinery	t	646	684	586	733	1 094	791	597	481
Exports									
Tin ore and concentrate									
Malaysia	t	11 115	11 542	9 548	8 067	5 728	1 199	605	41
Thailand	t	5 951	3 834	6 626	6 076	9 426	10 342	4 123	0
Other	t	0	0	0	0	0	0	0	0
Total	t	17 066	15 376	16 174	14 143	15 154	11 541	4 728	41
	\$m	59.94	73.03	69.55	67.43	66.08	43.36	18.41	0.25
Refined									
Malaysia	t	35	0	20	50	1	0	65	180
Thailand	t	0	0	109	27	0	0	0	0
United States	t	500	480	199	1	0	0	0	0
Other	t	3	62	165	217	96	12	4	15
Total	t	537	542	493	295	97	12	69	195
	\$m	3.63	4.36	3.01	0.97	0.53	0.17	0.25	1.06
Tin content of primary materials exported b	t	10 160	10 066	10 556	9 057	9 325	6 995	2 885	218
Prices c									
World	US\$/t	5 644.3	5 542.4	5 399.9	5 434.8	4 483.6	4 062.0	4 896.3	8 512.0
Australia	A\$/t	7 611.5	8 831.9	8 373.8	9 335.9	8 646.7	7 469.4	7 521.1	11 581.3

a Metallic content. **b** Tin content of all ores, concentrates, slags, residues and refined tin. **c** London Metal Exchange cash settlement price for refined tin, 99.75 per cent purity.

Sources: ABARE, *Australian Mineral Statistics*, Canberra; ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; World Bureau of Metal Statistics, *World Metal Statistics*, London.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Australia	10.3	10.3	10.0	9.1	10.0	7.1	3.9	1.3
Bolivia	12.9	11.3	12.4	12.5	12.0	13.2	16.4	17.6
Brazil	19.1	14.2	13.2	13.8	13.0	12.0	12.2	12.5
China	67.5	70.1	80.1	97.1	99.4	81.0	101.8	117.2
Indonesia	55.2	55.9	47.8	51.6	56.3	78.6	64.0	78.4
Kazakhstan	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2
Laos	1.0	0.6	0.4	0.4	0.8	1.1	1.1	1.1
Malaysia	5.1	5.8	7.3	6.3	5.0	4.2	3.4	2.7
Myanmar	0.1	0.1	0.2	1.6	0.6	0.3	0.5	0.4
Nigeria	2.8	1.9	1.5	2.0	1.3	0.9	0.9	0.9
Peru	28.0	25.7	30.6	37.4	38.2	38.8	40.2	41.6
Portugal	3.5	3.1	2.2	1.2	1.2	0.3	0.2	0.2
Rwanda	0.2	0.4	0.4	0.4	0.4	0.2	0.2	0.2
Russian Federation	7.5	7.0	5.2	6.6	5.5	7.2	7.2	7.2
Thailand	0.7	1.7	2.7	2.2	2.5	1.1	0.9	0.7
United Kingdom	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Viet Nam	4.8	4.5	4.5	1.8	1.7	1.7	2.1	3.5
Other ^s	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.1
Total ^s	221.5	213.5	219.1	244.6	248.4	248.4	254.6	285.8

^a Recoverable tin content of ores and concentrates produced. ^s ABARE estimate; excludes some small producer countries.

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

339 Summary of Australian statistics for titanium

	Ilmenite concentrate				Rutile concentrate			
	Production a	Exports			Production a	Exports		
	Volume	Volume	Value	Unit value	Volume	Volume	Value	Unit value
	kt	kt	\$m	\$/t	kt	kt	\$m	\$/t
1960	108	77	1	7.8	90	95	8.1	85.3
1961	169 b	146	1	8.9	103	101	6.4	63.4
1962	182 b	158	1	8.9	121	119	7.3	61.3
1963	205 b	155	2	9.7	185	157	10.6	67.5
1964	309 b	250	2	9.2	185	197	14.1	71.6
1965	448 b	367	4	9.5	221	243	17.1	70.4
1966	522	362	4	10.2	251	235	17.8	75.7
1967	554	391	4	10.0	270	263	19.7	74.9
1968	562	402	4	10.2	293	290	21.9	75.5
1969	721	576	6	10.4	326	304	25.5	83.9
1970	886	648	7	10.2	371	374	34.8	93.0
1971	814	657	7	10.2	375	325	35.8	110.2
1972	707	410	4	10.7	313	354	41.1	116.1
1973	720	650	7	11.1	335	336	40.5	120.5
1974	817	739	9	11.9	319	345	48.2	139.7
1975	991	534	7	12.7	348	319	60.0	188.1
1976	959	951	14	14.2	390	347	72.5	208.9
1977	1 033	1 083	18	16.2	325	247	53.5	216.6
1978	1 255	994	16	16.2	257	371	69.2	186.5
1979	1 181	907	15	16.8	275	318	69.3	217.9
1980	1 385	1 059	20	19.0	312	315	88.8	281.9
1981	1 321	908	21	23.6	231	216	64.1	296.8
1982	1 149	879	22	25.4	221	199	50.9	255.8
1983	893	817	23	28.2	163	218	54.0	247.7
1984	1 493	1 173	34	28.9	170	192	58.0	302.1
1985	1 419	1 152	40	34.5	212	212	83.5	393.9
1986	1 238	1 034	49	46.9	216	230	116.4	506.1
1987	1 349	1 046	61	58.3	249	257	149.9	583.7
1988	1 610	1 046	68	65.3	231	238	137.5	576.9
1989	1 690	1 001	73	72.5	243	252	165.0	655.0
1990	1 616	1 041	83	79.5	244	186	143.9	775.3
1991	1 466	977	82	84.0	192	175	124.1	708.8
1992	1 787	945	77	81.1	183	196	111.6	568.5
1993	1 795	962	79	82.6	187	182	98.9	543.3
1994	1 777	1 084	90	82.8	233	209	113.4	541.3
1995	1 980	1 075	98	91.1	204	221	132.1	598.0
1996	2 030	1 062	103	97.4	192	169	128.5	761.3
1997	2 233	1 350	137	101.6	245	208	150.3	724.1
1998	2 413	1 286	141	110.0	233	218	176.1	807.9
1999	1 976	1 051	135	128.4	182	157 s	117.7 s	747.2 s
2000	2 146	1 148	160	139.2	207	189 s	146.4 s	776.4 s
2001	2 019	915	144	157.6	207	188 s	165.8 s	880.2 s
2002	1 954	969	139	143.1	219	204 s	171.7 s	840.4 s
2003	2 006	868	105	120.4	173	164 s	112.2 s	685.9 s
2004	1 934	756	77	101.4	163	147 s	98.2 s	666.4 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.

340 Australian exports of ilmenite, by destination

	Japan	Spain	United	United	Other	Total	
			Kingdom	States		Volume	Value
	kt	kt	kt	kt	kt	kt	\$m
1960	23	na	32	18	na	77	0.6
1961	29	na	70	32	na	146	1.3
1962	28	na	77	53	na	158	1.4
1963	23	na	73	37	na	155	1.5
1964	51	na	124	16	na	250	2.3
1965	46	na	205	66	na	367	3.5
1966	45	na	197	49	na	362	3.7
1967	63	na	169	49	na	391	3.9
1968	68	na	157	30	na	402	4.1
1969	121	na	235	37	na	576	6.0
1970	227	na	208	83	na	648	6.6
1971	180	9	294	44	130	657	6.7
1972	68	na	193	2	na	410	4.4
1973	112	na	239	45	na	650	7.2
1974	134	na	199	94	na	739	8.8
1975	110	na	134	62	na	534	6.8
1976	178	24	214	226	309	951	13.5
1977	131	68	232	329	323	1 083	17.5
1978	74	56	227	260	377	994	16.1
1979	51	94	196	150	416	907	15.2
1980	56	35	184	340	444	1 059	20.1
1981	36	88	176	250	358	908	21.4
1982	61	80	162	329	247	879	22.3
1983	65	89	93	284	286	817	23.0
1984	214	106	145	425	283	1 173	33.9
1985	240	96	128	489	199	1 152	39.7
1986	152	79	165	453	185	1 034	48.5
1987	162	105	198	384	197	1 046	61.0
1988	100	105	203	455	183	1 046	68.3
1989	95	97	143	431	236	1 001	72.6
1990	152	50	238	384	217	1 041	82.8
1991	164	75	178	293	266	977	82.0
1992 a	36	27	26	23	832	945	76.6
1993 a	na	na	na	na	na	962	79.4
1994 a	na	na	na	na	na	1 084	89.7
1995 a	na	na	na	na	na	1 075	98.0
1996 a	na	na	na	na	na	1 062	103.4
1997 a	na	na	na	na	na	1 350	137.2
1998 a	na	na	na	na	na	1 286	141.4
1999 a	na	na	na	na	na	1 051	135.0
2000 a	na	na	na	na	na	1 148	159.8
2001 a	na	na	na	na	na	915	144.2
2002 a	na	na	na	na	na	969	138.6
2003 a	na	na	na	na	na	868	104.6
2004 a	na	na	na	na	na	756	76.6

a Confidentiality provisions prevent full reporting after 1991. 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.

341 Australian exports of rutile, by destination

	Japan kt	Netherlands kt	United Kingdom kt	United States kt	Other kt	Total	
						Quantity kt	Value \$m
1960	8	10	13	27	37	95	8.1
1961	12	12	15	24	38	101	6.4
1962	8	16	17	32	46	119	7.3
1963	11	10	15	80	41	157	10.6
1964	16	14	16	98	53	197	14.1
1965	21	11	17	138	56	243	17.1
1966	22	9	16	124	64	235	17.8
1967	30	19	16	132	66	263	19.7
1968	31	17	17	149	76	290	21.9
1969	29	22	32	153	68	304	25.5
1970	34	37	38	196	69	374	34.8
1971	30	31	22	184	58	325	35.8
1972	31	30	48	168	77	354	41.1
1973	33	27	65	132	79	336	40.5
1974	24	29	57	157	78	345	48.2
1975	20	19	45	167	68	319	60.0
1976	17	30	60	155	85	347	72.5
1977	17	29	40	101	60	247	53.5
1978	26	28	48	195	74	371	69.2
1979	27	22	81	121	67	318	69.3
1980	35	35	55	130	60	315	88.8
1981	31	13	41	83	48	216	64.1
1982	29	8	59	71	32	199	50.9
1983	27	12	56	85	38	218	54.0
1984	19	27	38	83	25	192	58.0
1985	34	14	48	88	28	212	83.5
1986	26	25	69	79	31	230	116.4
1987	14	46	67	86	44	257	149.9
1988	21	25	45	104	43	238	137.5
1989	28	29	51	111	33	252	165.0
1990	29	20	20	89	28	186	143.9
1991	26	26	26	71	25	175	124.1
1992 a	na	na	na	na	na	196	111.6
1993 a	na	na	na	na	na	182	98.9
1994 a	na	na	na	na	na	209	113.4
1995 a	na	na	na	na	na	221	132.1
1996 a	na	na	na	na	na	169	128.5
1997 a	na	na	na	na	na	208	150.3
1998 a	na	na	na	na	na	218	176.1
1999 a	na	na	na	na	na	157 s	117.7 s
2000 a	na	na	na	na	na	189 s	146.4 s
2001 a	na	na	na	na	na	188 s	165.8 s
2002 a	na	na	na	na	na	204 s	171.7 s
2003 a	na	na	na	na	na	164 s	112.2 s
2004 a	na	na	na	na	na	147 s	98.2 s

a Confidentiality provisions prevent full reporting after 1991. 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.

342 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	1 934	698	175	870	365	526	5 761	10 417

a Includes leucoxene. 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.

343 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	442	990	1 030
2002	219	0	134	22	82	458	864	975
2003	173	0	108	26	82	389	842	928
2004	163	0	110	23	82	378	829	1 018

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.

344 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

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.

345 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	0.82	0.92	26.98
2003	7.60	10.46	0.00	2.04	3.14	0.76	0.78	26.02
2004	8.98	11.60	0.00	3.04	3.28	0.76	0.85	29.73

^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.

346 World uranium consumption, by country ^a

	Canada	France	Germany ^b	Japan	United Kingdom	United States	Other	Total
	kt	kt	kt	kt	kt	kt	kt	kt
1980	1.00	3.70	2.76	4.00	1.90	7.40	3.59	24.35
1981	1.10	4.40	1.95	4.70	1.30	8.30	4.84	26.59
1982	1.30	6.00	3.20	4.70	2.20	11.80	6.90	36.10
1983	1.40	6.50	2.70	3.50	1.50	8.90	5.85	30.35
1984	1.30	6.00	3.40	5.00	1.50	10.50	6.50	34.20
1985	1.30	6.00	3.20	4.70	2.20	11.80	6.90	36.10
1986	1.40	6.20	3.30	4.80	1.50	11.85	7.22	36.27
1987	1.60	6.20	3.30	6.00	1.55	11.15	7.70	37.50
1988	1.70	6.50	3.30	6.40	1.70	14.19	6.77	40.56
1989	1.80	7.20	3.30	6.60	1.90	14.50	7.39	42.69
1990	1.90	7.20	3.30	6.90	2.00	11.40	7.64	40.34
1991	1.90	7.30	3.30	7.10	2.00	16.00	8.30	45.90
1992	1.90	7.80	3.20	7.60	2.33	17.30	7.31	47.44
1993	1.90	7.90	3.20	8.10	2.04	17.30	9.34	49.77
1994	1.90	8.90	3.00	7.70	2.43	15.60	9.90	49.43
1995	1.90	8.90	3.30	7.70	2.51	18.40	9.74	52.45
1996	1.80	8.90	3.20	8.70	2.62	17.40	9.81	52.43
1997	1.80	8.60	2.90	7.50	2.62	21.30	8.41	53.13
1998	1.20	8.20	3.10	7.81	2.36	17.70	12.33	52.69
1999	1.30	8.20	3.10	9.29	2.36	18.10	12.19	54.54
2000	1.80	8.88	3.35	7.50	2.25	20.57	12.84	57.19
2001	1.80	8.57	3.20	11.10	2.25	18.42	12.32	57.66
2002	1.40	8.57	3.20	7.84	1.93	22.70	13.23	58.87
2003	1.70	8.57	3.20	8.38	1.76	22.80	13.32	59.73
2004	na	na	na	na	na	na	na	na

^a Annual reactor related requirements; excludes current and former centrally planned economies. ^b West Germany until 1991; unified Germany from 1992. **na** Not available.

Note: Uranium: Resources, production and Demand publication is only released every two years.

Source: International Atomic Energy Agency, *Uranium: Resources, Production and Demand*, Vienna.

347 Uranium prices ^a

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Av.
1971	6.20	6.20	6.20	6.20	6.15	6.05	6.00	5.95	5.95	5.95	5.95	5.95	6.06
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	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.

348 Nuclear power reactors in operation

	2000 Reactors in operation a		2001 Reactors in operation a		2002 Reactors in operation a		2003 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	5 712	7	5 760	7	5 760	7	5 760
Brazil	2	1 901	2	1 901	2	1 901	2	1 901
Bulgaria	6	3 538	4	2 722	4	2 722	4	2 722
Canada	14	10 018	14	10 018	17	12 113	17	12 113
China	3	2 167	7	5 318	9	6 587	9	6 587
Czech Republic	5	2 560	6	3 468	6	3 548	6	3 548
Finland	4	2 656	4	2 656	4	2 656	4	2 656
France	59	63 073	59	63 073	59	63 363	59	63 363
Germany	19	21 283	19	21 283	18	20 643	18	20 643
Hungary	4	1 755	4	1 755	4	1 755	4	1 755
India	14	2 503	14	2 503	14	2 550	14	2 550
Japan	54	44 289	54	44 287	54	45 464	54	45 464
Korea, Rep. of	16	12 990	18	14 890	19	15 850	19	15 850
Lithuania	2	2 370	2	2 370	2	2 370	2	2 370
Mexico	2	1 360	2	1 360	2	1 310	2	1 310
Netherlands	1	450	1	450	1	449	1	449
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	30	20 793
South Africa	2	1 800	2	1 800	2	1 800	2	1 800
Slovakia	6	2 408	6	2 408	6	2 442	6	2 442
Slovenia	1	676	1	676	1	656	1	656
Spain	9	7 524	9	7 574	9	7 584	9	7 584
Sweden	11	9 432	11	9 432	11	9 451	11	9 451
Switzerland	5	3 200	5	3 200	5	3 220	5	3 200
United Kingdom	33	12 498	31	12 252	23	11 852	27	12 052
Ukraine	13	11 207	13	11 207	14	12 157	13	11 207
United States	104	97 860	104	98 230	104	98 298	104	98 298
Total	438	353 298	441	358 661	439	364 569	442	363 819

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.

349 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

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.

350 Australian supply and disposal of zinc

	Unit	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Production									
Mine a	kt	1 038	1 142	1 265	1 483	1 490	1 529	1 355	1 352
Refined									
Primary	kt	304	323	405	534	572	570	502	464
Secondary b	kt	10	7	5	5	6	6	6	6
Exports									
Ores and concentrates	kt	1 450	1 729	1 496	1 903	1 849	1 913	1 844	1 965
	\$m	581	690	682	977	735	670	677	851
Refined metal	kt	198	274	317	452	496	486	396	397
	\$m	407	444	550	905	794	757	557	614
Consumption c									
	kt	90	90	89	81	88	86	84	79
Export unit value									
Ores and concentrates	A\$/t	400.9	399.0	456.2	513.5	397.5	350.3	366.9	432.8
Refined metal	A\$/t	2 048.7	1 617.8	1 734.0	2 000.5	1 600.8	1 558.2	1 408.6	1 549.1

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.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Ores and concentrates b								
Belgium	102	103	100	40	27	89	64	45
China	57	16	0	5	94	63	116	131
Germany	29	17	6	22	33	28	27	32
India	30	36	27	14	0	18	19	34
Italy	20	22	34	33	21	67	21	5
Japan	231	239	226	217	216	185	202	181
Korea, Rep. of	170	239	257	173	252	173	186	234
Netherlands	5	10	23	238	188	219	225	230
Thailand	25	27	43	52	32	25	24	na
United Kingdom	28	46	43	31	42	65	5	na
Other	43	21	57	65	119	84	118	na
Total	740	776	816	890	1 024	1 016	1 007	995
Metal								
Bangladesh	19	10	3	12	18	22	16	2
Chinese Taipei	36	49	67	72	63	61	42	39
Hong Kong, China	45	50	66	74	87	92	105	119
India	12	5	4	9	13	12	14	5
Indonesia	46	34	37	39	32	33	31	18
Malaysia	24	35	55	33	33	30	19	36
Netherlands	na	na	13	3	18	21	33	na
Saudi Arabia	1	1	6	11	15	21	24	17
Thailand	9	4	3	4	9	15	7	6
United States	7	6	5	124	89	58	8	8
Other	40	34	21	46	80	118	162	75
Total	239	228	280	427	457	483	461	325

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*, London.

352 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	8 904	9 093	628	9 721	9 391	1 095	778.9
2003	9 579	9 277	593	9 870	9 828	1 181	828.0
2004	9 635	9 587	580	10 167	10 465	1 020	1 047.4

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*, London; Metallgesellschaft AG, *Metallstatistik*, Frankfurt.

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

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	4	4	5	6	7	10	3	5
Morocco	90	112	112	105	89	91	69	87
Namibia	37	42	35	40	37	41	108	198
South Africa	71	70	70	63	61	64	41	32
Tunisia	3	28	45	41	41	37	38	31
Total	208	257	267	256	236	242	259	353
Americas								
Argentina	33	36	34	35	40	37	30	26
Bolivia	154	151	145	151	145	142	145	146
Brazil	124	88	99	100	111	133	147	165
Canada	1 077	1 062	1 021	1 002	1 065	916	788	791
Chile	34	16	32	31	33	36	33	27
Honduras	40	37	41	43	48	46	44	41
Mexico	379	395	363	393	429	446	472	462
Peru	868	869	900	910	1 056	1 219	1 369	1 209
United States	632	755	852	852	842	784	768	739
Total	3 341	3 408	3 483	3 517	3 769	3 759	3 795	3 606
Asia								
China	1 210	1 273	1 476	1 780	1 572	1 624	2 029	2 264
India	142	195	185	208	222	234	305	341
Iran	77	86	98	102	105	121	111	114
Japan	72	68	64	64	45	43	45	48
Kazakhstan	223	224	283	322	320	376	392	384
Korea, Dem. Rep. of	60	44	37	34	28	32	52	62
Korea, Rep. of	9	11	10	12	5	na	na	na
Thailand	15	25	24	27	24	25	31	40
Turkey	64	58	57	48	36	43	40	39
Viet Nam	16	18	18	22	32	42	45	40
Total	1 890	2 005	2 258	2 623	2 400	2 549	3 058	3 340
Australia								
Australia	972	1 020	1 110	1 379	1 476	1 444	1 447	1 298
Europe								
Bulgaria	21	18	11	10	11	14	12	11
Finland	32	31	20	16	20	35	39	37
Greece	18	20	18	17	32	35	3	na
Ireland	193	180	200	263	298	253	419	438
Macedonia	21	24	21	25	20	10	4	na
Poland	158	158	155	157	153	152	154	148
Romania	29	25	27	27	29	29	26	25
Russian Federation	121	114	161	163	164	162	159	179
Spain	147	128	154	204	161	70	15	na
Sweden	155	161	175	177	159	149	188	199
Total	925	880	947	1 063	1 052	910	1 019	1 037
Total	7 337	7 569	8 065	8 839	8 933	8 904	9 579	9 635

^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*, London.

354 World zinc metal production, by region and country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Africa								
Algeria	30	27	27	26	26	34	32	30
South Africa	110	107	108	103	109	111	112	105
Total	140	134	135	129	135	147	193	258
Americas								
Argentina	39	39	40	36	40	39	39	34
Brazil	186	177	187	192	193	255	258	266
Canada	704	745	777	780	661	793	761	805
Mexico	230	229	219	235	304	302	319	338
Peru	173	184	191	200	190	170	202	195
United States	366	368	372	371	329	344	353	355
Total	1 698	1 741	1 785	1 814	1 717	1 904	1 932	1 993
Asia								
China	1 434	1 486	1 703	1 957	2 038	2 155	2 319	2 519
India	166	180	189	204	234	248	280	270
Iran	7	19	24	47	65	82	101	96
Japan	603	608	633	654	644	640	651	635
Kazakhstan	185	240	243	262	277	286	279	336
Korea, Dem. Rep. of	55	43	40	37	31	34	55	70
Korea, Rep. of	335	390	430	477	508	608	645	669
Thailand	84	89	95	101	105	105	107	103
Uzbekistan	53	52	27	34	35	30	30	30
Total	2 959	3 143	3 412	3 774	3 936	4 189	4 450	4 729
Australia	307	311	344	494	556	567	553	474
Europe								
Belgium	203	205	232	264	256	239	244	257
Bulgaria	82	86	84	84	88	82	86	98
Finland	176	199	225	223	249	235	266	285
France	317	320	318	318	329	334	253	260
Germany	348	361	361	357	357	378	388	358
Italy	268	232	145	170	179	176	123	118
Macedonia	53	54	49	58	52	56	28	na
Netherlands	203	217	221	217	206	203	223	225
Norway	136	138	144	138	145	145	142	140
Poland	171	175	179	173	175	159	154	154
Romania	30	29	29	52	52	48	48	50
Russian Federation	189	197	232	242	250	257	253	240
Spain	378	385	383	391	437	503	519	525
United Kingdom	93	79	89	76	90	98	14	na
Other	31	14	1	7	12	1	0	5
Total	2 678	2 691	2 692	2 770	2 877	2 914	2 741	2 715
Total	7 783	8 021	8 368	8 981	9 221	9 721	9 870	10 167

^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*, London.

355 Volume of world zinc trade, by country ^a

	1997	1998	1999	2000	2001	2002	2003	2004
	kt	kt	kt	kt	kt	kt	kt	kt
Exports								
Ores and concentrates ^b								
Australia	740	776	816	890	1 024	1 016	1 007	955
Canada	473	391	327	311	428	409	258	228
China	191	95	119	70	7	2	na	na
Ireland	185	169	214	257	305	249	417	445
Mexico	135	155	141	138	117	131	105	62
Peru	618	592	601	620	747	906	900	879
Sweden	158	145	163	169	130	140	150	188
United States	461	552	531	523	698	827	822	746
Metal								
Australia	239	228	280	427	457	483	461	325
Belgium	143	105	86	99	90	107	110	138
Canada	547	577	611	603	495	598	591	614
China	544	354	507	561	544	472	451	224
Finland	129	156	187	168	175	189	212	236
CIS	167	253	255	254	236	226	147	na
France	177	144	128	112	127	143	110	115
Korea, Rep. of	97	159	154	177	209	261	302	320
Mexico	109	125	74	130	151	161	181	189
Netherlands	193	263	245	223	284	197	421	285
Norway	124	117	122	117	113	133	126	127
Peru	109	125	124	125	121	127	137	113
Spain	180	114	136	96	94	79	246	295
Imports								
Ores and concentrates ^b								
Belgium	238	221	505	442	412	409	571	704
Canada	182	210	266	208	140	276	397	267
China	83	26	22	39	384	393	373	306
Finland	146	193	203	216	204	218	218	240
CIS	90	207	130	141	92	70	60	na
France	317	282	301	318	287	279	241	229
Germany	166	208	120	156	175	176	186	240
Italy	259	248	126	158	156	141	96	125
Japan	512	486	564	531	575	559	544	563
Korea, Rep. of	330	400	441	480	537	582	616	627
Netherlands	172	209	221	213	152	38	214	204
Spain	258	255	287	283	344	451	537	459
United Kingdom	102	73	114	160	108	115	8	0
Metal								
Belgium	248	232	189	237	233	237	222	269
Chinese Taipei	225	241	273	294	277	304	332	344
France	114	117	129	129	127	98	115	103
Germany	240	265	252	251	260	231	253	249
Italy	97	149	198	213	176	202	226	273
Japan	181	113	57	81	64	17	41	42
Korea, Rep. of	69	72	113	130	97	115	108	72
Netherlands	118	154	125	172	178	138	182	220
Singapore	240	167	131	158	204	142	68	18
United Kingdom	137	161	112	119	111	106	174	142
United States	876	882	1 070	923	827	878	792	868

^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*, London.

356 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	1.6	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

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.

357 Australian exports of zircon, by principal destination

	Italy kt	Japan kt	Netherlands kt	United States kt	Other kt	Total ^a	
						Volume kt	Value \$'000
1960	4	13	12	29	45	103	2.7
1961	6	25	21	33	53	138	3.4
1962	11	17	24	25	53	130	3.3
1963	16	22	24	55	60	177	4.4
1964	14	32	29	46	75	196	5.1
1965	17	28	29	52	87	213	6.8
1966	17	31	20	62	77	207	9.0
1967	21	57	22	64	79	243	10.7
1968	21	60	21	58	102	262	11.0
1969	25	72	31	75	103	306	12.4
1970	33	116	33	84	114	380	13.9
1971	24	91	27	71	153	366	13.3
1972	32	141	33	54	126	386	13.8
1973	41	155	38	88	109	431	15.9
1974	38	154	29	48	115	384	32.2
1975	31	102	16	41	109	299	58.2
1976	43	125	27	52	98	345	54.5
1977	32	89	38	60	104	323	36.2
1978	43	109	39	59	140	390	29.4
1979	65	188	35	66	125	479	33.1
1980	81	176	51	94	100	502	35.1
1981	57	156	53	64	114	444	37.0
1982	59	156	38	61	91	405	43.1
1983	44	163	45	20	108	380	44.7
1984	58	169	50	46	115	438	51.8
1985	60	197	48	30	161	496	63.9
1986	67	160	34	35	150	446	74.5
1987	56	171	30	59	149	465	108.4
1988	83	138	72	54	117	464	189.6
1989	63	139	65	68	139	474	303.7
1990	46	103	60	12	107	332	205.0
1991	41	122	29	19	113	324	136.0
1992 ^b	36	97	27	17	133	310	71.6
1993 ^b	6	47	4	16	275	348	62.9
1994 ^b	na	na	na	na	na	504	124.1
1995 ^b	na	na	na	na	na	514	190.1
1996 ^b	na	na	na	na	na	424	248.3
1997 ^b	na	na	na	na	na	342	204.9
1998 ^b	na	na	na	na	na	399	225.9
1999 ^b	na	na	na	na	na	370 ^s	174.4 ^s
2000 ^b	na	na	na	na	na	372 ^s	198.0 ^s
2001 ^b	na	na	na	na	na	391 ^s	262.5 ^s
2002 ^b	na	na	na	na	na	407 ^s	279.8 ^s
2003 ^b	na	na	na	na	na	452 ^s	261.3 ^s
2004 ^b	na	na	na	na	na	437 ^s	285.0 ^s

^a All grades, bulk and bagged, before January 1992; standard grade only until June 1993; all grades until August 1999. ^b Confidentiality provisions prevent full reporting after 1991. Confidential country data included under Other. ^s ABARE estimate. **na** Not available.

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

358 World zircon production, by major producing country

	Australia	South Africa ^a	Ukraine	United States ^a	Other ^a	Total ^a
	kt	kt	kt	kt	kt	kt
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

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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