

# australian **economy**

- > overview
- > macroeconomic indicators
- > farm sector
- > resource sector



# 1 Australian gross product, by sector

	Chain volume measures a						Nominal prices
	Mining					Gross domestic product	Gross domestic product
	Mining (excl. services to mining)			Services to mining	Total		
	Rural 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 <sup>a</sup>

	Rural		Mining '000	Manufacturing '000	Other '000	Total employment '000
	Farm '000	Total <sup>b</sup> '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

<sup>a</sup> Average employment over four quarters, based on ANZSIC and equivalent ASIC codes. <sup>b</sup> 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 <sup>a</sup> %			
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

<sup>a</sup> 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 <sup>a</sup>

Chain volume measures

	Rural products <sup>b</sup>	Resource sector products <sup>c</sup>	Other merchandise	Total merchandise <sup>d</sup>	Services <sup>d</sup>	Total goods and services <sup>d</sup>
	\$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

<sup>a</sup> Reference year 2003-04. <sup>b</sup> Before 1989-90, wine and paper and paperboard are excluded. <sup>c</sup> Minerals and energy resources. Before 1990-91, bauxite, diamonds and manganese are excluded. <sup>d</sup> 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	
<b>Annual indexes a</b>							
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
<b>Quarterly indexes b</b>							
<b>2002-03</b>							
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
<b>2003-04</b>							
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
<b>2004-05</b>							
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 <sup>c</sup> %	Consumer price index <sup>d</sup>
		Short term <sup>a</sup> %	Long term <sup>b</sup> %		
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>b</b>	Net foreign debt <b>c</b>	
	goods and services		balance <b>a</b>			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 <sup>a</sup>

	Japan ¥/A\$	United States US\$/A\$	New Zealand NZ\$/A\$	Korea, Rep. of <sup>b</sup> won/A\$	United Kingdom £/A\$	Euro €/A\$	Trade weighted index <sup>c</sup>
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

<sup>a</sup> 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). <sup>b</sup> Average of end-of-month data. <sup>c</sup> 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 <sup>a</sup>

	Real effective exchange rates <sup>b</sup>						
	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

<sup>a</sup> Period average. <sup>b</sup> 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 <sup>a</sup> %	China <sup>b</sup> %	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

<sup>a</sup> Regarded as nineteen countries for all years. <sup>b</sup> 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 <sup>a</sup>			Interest rates <sup>b</sup>			
	United States	Japan	Total Euro Area <sup>c</sup>	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

<sup>a</sup> Percentage change in consumer price indexes. <sup>b</sup> 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. <sup>c</sup> 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 <sup>a</sup>

	Australia million	United States million	European Union <sup>b</sup> million	Japan million	China million	Other East Asia <sup>c</sup> million	World <sup>d</sup> 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

<sup>a</sup> Midyear. <sup>b</sup> Regarded as twelve countries for all years. <sup>c</sup> Chinese Taipei, Indonesia, Malaysia, the Philippines, Republic of Korea, Singapore, Thailand. <sup>d</sup> 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 <sup>a b</sup>	Index of prices received <sup>c</sup>	Index of prices paid <sup>c</sup>	Farmers' terms of trade <sup>c d</sup>	Consumer price index <sup>b</sup>
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
<b>Grains and oilseeds</b>								
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 <b>a</b>	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>b</b>	21	25	29	28	20	21	25	33
<b>Total</b>	<b>5 617</b>	<b>5 785</b>	<b>6 013</b>	<b>6 910</b>	<b>7 495</b>	<b>4 804</b>	<b>5 723</b>	<b>5 603</b>
<b>Industrial crops</b>								
Raw cotton <b>c</b>	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
<b>Total</b>	<b>3 941</b>	<b>3 934</b>	<b>3 849</b>	<b>4 751</b>	<b>4 948</b>	<b>4 759</b>	<b>4 509</b>	<b>4 891</b>
<b>Other crops</b>	<b>2 300</b>	<b>2 487</b>	<b>2 780</b>	<b>3 145</b>	<b>3 432</b>	<b>3 420</b>	<b>3 096</b>	<b>3 186</b>
<b>Total crops</b>	<b>11 859</b>	<b>12 206</b>	<b>12 643</b>	<b>14 805</b>	<b>15 874</b>	<b>12 983</b>	<b>13 329</b>	<b>13 680</b>
<b>Meat and live animals for slaughter</b>								
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
<b>Total</b>	<b>3 850</b>	<b>4 095</b>	<b>4 606</b>	<b>5 882</b>	<b>6 514</b>	<b>5 905</b>	<b>5 590</b>	<b>6 413</b>
<b>Wool</b>								
Greasy <b>d</b>	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
<b>Total d</b>	<b>4 020</b>	<b>2 583</b>	<b>2 963</b>	<b>3 897</b>	<b>3 687</b>	<b>3 545</b>	<b>2 778</b>	<b>2 838</b>
<b>Dairy products</b>								
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
<b>Total</b>	<b>1 937</b>	<b>2 274</b>	<b>2 476</b>	<b>3 081</b>	<b>3 226</b>	<b>2 401</b>	<b>2 210</b>	<b>2 418</b>
<b>Other livestock exports</b>	<b>1 417</b>	<b>1 444</b>	<b>1 452</b>	<b>1 884</b>	<b>1 771</b>	<b>1 977</b>	<b>2 224</b>	<b>2 329</b>
<b>Total livestock exports</b>	<b>11 223</b>	<b>10 396</b>	<b>11 497</b>	<b>14 743</b>	<b>15 198</b>	<b>13 827</b>	<b>12 801</b>	<b>13 998</b>
<b>Total farm exports</b>	<b>23 082</b>	<b>22 603</b>	<b>24 139</b>	<b>29 549</b>	<b>31 073</b>	<b>26 810</b>	<b>26 129</b>	<b>27 678</b>

**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
<b>Africa</b>								
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
<b>Americas</b>								
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
<b>North Asia</b>								
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
<b>South East Asia</b>								
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
<b>South Asia</b>	1 485	1 186	1 268	1 216	1 228	654	777	820
<b>Middle East</b>	1 576	1 873	2 003	2 897	3 272	2 083	295	1 958
<b>Europe</b>								
European Union <b>a</b>	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
<b>Oceania</b>	904	926	988	1 138	1 205	1 284	1 233	1 350
New Zealand	590	628	680	804	870	946	924	1 023
<b>Other <b>b</b></b>	1 484	1 180	1 292	884	2 433	2 451	3 601	1 172
<b>Total</b>	<b>23 082</b>	<b>22 603</b>	<b>24 139</b>	<b>29 549</b>	<b>31 073</b>	<b>26 810</b>	<b>26 129</b>	<b>27 678</b>

**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
<b>Crops sector</b>									
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
<b>Livestock sector</b>									
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
<b>Total prices received</b>	<b>99.5</b>	<b>112.4</b>	<b>109.3</b>	<b>93.6</b>	<b>94.5</b>	<b>93.7</b>	<b>97.4</b>	<b>112.0</b>	<b>111.2</b>

*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
<b>Crops sector</b>									
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
<b>Livestock sector</b>									
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
<b>Total prices received</b>	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 <sup>a</sup>		Total area of farms million ha	Livestock numbers <sup>b</sup>		
	Wheat million ha	Other crops <sup>c</sup> 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

<sup>a</sup> 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. <sup>b</sup> 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. <sup>c</sup> 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 <sup>a</sup>

	Cereal grains and products \$m	Sugar products and honey \$m	Meat and meat preparations \$m	Wool and sheepskins \$m	Other rural <sup>b</sup> \$m	Total \$m
<b>At current prices</b>						
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

<sup>a</sup> On a balance of payments basis. <sup>b</sup> 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 <sup>a</sup>

	Number of establishments at 30 June no.	Employment at 30 June <sup>b</sup> no.	Wages and salaries <sup>c</sup> \$m	Turnover \$m	Stocks		Purchases, transfers in and selected expenses \$m	Value added \$m
					Opening	Closing		
					\$m	\$m		
<b>Mining <sup>d</sup></b>								
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

<sup>a</sup> 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). <sup>b</sup> Includes working proprietors. <sup>c</sup> Excludes amounts drawn by working proprietors. <sup>d</sup> 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 <sup>a</sup>	Total	Gold	Base		Total	Other	Total
					metals <sup>b</sup>	Other metallics			
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1970-71	79	na	na	na	na	na	na	na	na
1971-72	104	na	na	na	na	na	na	na	na
1972-73	93	na	na	na	na	na	na	na	na
1973-74	90	na	na	na	na	na	na	na	na
1974-75	60	14	74	na	na	na	90	6	170
1975-76	56	15	71	na	na	na	78	7	156
1976-77	68	30	98	na	na	na	95	9	202
1977-78	103	48	151	na	na	na	101	10	262
1978-79	163	56	219	na	na	na	105	21	345
1979-80	295	85	380	30	92	41	163	38	581
1980-81	368	123	491	69	153	69	291	56	838
1981-82	804	165	969	95	167	79	341	70	1 380
1982-83	927	98	1 025	96	130	55	281	59	1 365
1983-84	824	60	884	152	138	40	330	35	1 249
1984-85	793	48	841	177	135	40	352	37	1 230
1985-86	766	82	848	215	79	32	326	34	1 208
1986-87	305	59	364	357	77	22	456	42	862
1987-88	495	48	543	581	84	40	705	47	1 295
1988-89	639	57	696	449	100	36	584	56	1 336
1989-90	583	52	635	341	118	39	498	57	1 190
1990-91	583	36	618	301	172	45	518	48	1 184
1991-92	474	40	514	305	145	66	515	48	1 078
1992-93	612	33	645	320	183	45	548	50	1 244
1993-94	507	35	542	454	192	43	688	69	1 299
1994-95	682	46	728	555	201	37	792	55	1 576
1995-96	725	60	785	547	252	40	839	61	1 685
1996-97	853	84	936	728	207	59	994	71	2 001
1997-98	981	87	1 068	648	227	55	930	50	2 048
1998-99	868	55	923	486	177	70	733	49	1 706
1999-00	723	47	770	375	157	64	596	33	1 399
2000-01	1 044	50	1 093	370	165	69	604	30	1 727
2001-02	883	59	942	331	133	87	551	30	1 523
2002-03	995	85	1 080	378	142	na	na	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

<sup>a</sup> Coal and uranium. <sup>b</sup> 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 <sup>a</sup>	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 <sup>b</sup>	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 <sup>c</sup>	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

<sup>a</sup> Includes expenditure on petroleum and gas. <sup>b</sup> Break in continuity as a result of change in scope and the introduction of the integrated capital expenditure survey. <sup>c</sup> 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 <sup>a</sup>

	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 <sup>b</sup>	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 <sup>c</sup>	34 182	34 299	52 270	54 627	54 533	52 704 <sup>s</sup>

<sup>a</sup> Gross value is ex mine. Data in this table are not on the same basis as data shown in the previous table. <sup>b</sup> Excludes value of ilmenite use for beneficiated ilmenite. <sup>c</sup> Includes components shown as not available. Data based on ABS mining collection (equivalent to ANZSIC subdivisions 11–13). <sup>s</sup> 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 <sup>a</sup>

	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 <sup>b</sup>
1984	2 707	6 652	2 892	3 170 <sup>c</sup>	782	237	697	17 457 <sup>b</sup>
1985	2 959	8 514	4 020 <sup>d</sup>	4 310 <sup>c</sup>	1 165	269 <sup>e</sup>	620	22 108 <sup>b</sup>
1986	3 151	5 131	4 185	5 096 <sup>c</sup>	1 016	336	805	19 720 <sup>b</sup>
1987	3 249	5 471	4 277	5 834	991	300	1 085	21 207 <sup>b</sup>
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 <sup>f</sup>	1 182	21 063 <sup>g</sup>
1989-90	4 524	4 019 <sup>h</sup>	5 381	8 819	1 231	496	1 663	26 133 <sup>h</sup>
1990-91	3 751	na <sup>i</sup>	4 961	9 761	na <sup>i</sup>	355	1 866	26 293
1991-92	3 721	na <sup>i</sup>	4 981	9 994	na <sup>i</sup>	361	1 493	25 985
1992-93	3 817	na <sup>i</sup>	5 519	10 286	na <sup>i</sup>	310	1 350	26 721
1993-94	3 863	na <sup>i</sup>	5 134	10 231	na <sup>i</sup>	327	1 028	25 702
1994-95	3 867	na <sup>i</sup>	5 283	11 835	na <sup>i</sup>	327	1 074	26 723
1995-96	4 027	na <sup>i</sup>	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 <sup>s</sup>

<sup>a</sup> 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). <sup>b</sup> Includes items excluded from state totals for confidentiality reasons. <sup>c</sup> Excludes bauxite, limestone and talc. <sup>d</sup> Excludes limestone and salt. <sup>e</sup> Excludes iron oxide, molybdenum, and tin-copper concentrate. <sup>f</sup> Excludes clay, dolomite, limestone, peat and silica. <sup>g</sup> Excludes salt and silica for Victoria and clay, dolomite, limestone, peat and silica for Tasmania. <sup>h</sup> Excludes salt and silica for Victoria. <sup>i</sup> ABS confidentiality provisions apply; data not available for publication. <sup>s</sup> ABARE estimate. <sup>na</sup> 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 <b>a</b>	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 <b>a</b>	kt	171	157	165	153	201	181	143	153
Lead <b>b</b>	kt	185	199	233	215	275	267	247	234
Nickel matte	kt	103	79	98	100	95	101	110	115
Nickel <b>c</b>	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 <b>d</b>	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

	<b>Alumina</b> av. export unit value AS\$/t	<b>Aluminium</b> (high grade) LME cash US\$/t	<b>Gold</b> London AM fix US\$/oz	<b>Iron ore a</b> av. export unit value AS\$/t	<b>Steaming coal</b> av. export unit value AS\$/t	<b>Coking coal</b> av. export unit value AS\$/t	<b>Crude oil</b> world trade weighted average US\$/bbl	<b>Uranium</b> 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
	<b>Copper</b> (high grade) LME cash US\$/t	<b>Lead</b> LME cash US\$/t	<b>Zinc</b> (high grade) LME cash US\$/t	<b>Silver c</b> London fix US\$/troy oz	<b>Nickel</b> LME cash US\$/t	<b>Ilmenite d</b> av. export unit value AS\$/t	<b>Rutile e</b> av. export unit value AS\$/t	<b>Zircon f</b> 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 <sub>3</sub> O <sub>8</sub> )	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 <b>s</b>	120	135	185	196	136	159	125	123
Alumina <b>a</b>	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>b</b>	1 194	1 366	1 616	2 286	2 159	2 005	2 166	3 059
Diamonds <b>cs</b>	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>b</b>	492	537	607	637	729	657	728	1 040
Magnesia	57	46	45	53	56	52	51	54
Manganese ore and concentrate <b>s</b>	157	165	185	261	299	312	371	473
Nickel <b>s</b>	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 <b>d</b>	94	112	129	142	163	136	118	161
Tin <b>b</b>	75	73	70	76	49	38	1	8
Titanium minerals								
Ilmenite concentrate <b>e</b>	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 <b>s</b>	274	251	226	313	296	293	253	308
Titanium dioxide pigment	346	387	404	494	460	428	399	422
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	288	288	367	497	361	427	364	475
Zinc <b>b</b>	988	1 133	1 233	1 882	1 529	1 427	1 234	1 465
Zircon concentrate <b>f</b>	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 <b>g</b>	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 <sup>a</sup>

	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
	<b>1997-98</b>	<b>1998-99</b>	<b>1999-00</b>	<b>2000-01</b>	<b>2001-02</b>	<b>2002-03</b>	<b>2003-04</b>	<b>2004-05</b>
	\$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

<sup>a</sup> 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 <b>a</b>	'000 ct	2 827	2 528	2 598	2 431	3 218	2 229	2 168
Iron and steel								
Iron ore and pellets <b>b</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 <b>c</b>	ML	1 435	1 400	1 129	1 280	1 627	3 374	3 961
Other refinery products <b>s</b>	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 <b>a</b>	162	210	249	255	302	309	347
Gold <b>b</b>	2 351	2 390	1 686	2 207	2 957	2 559	2 462
Iron and steel							
Iron ore and pellets <b>c</b>	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 <b>d</b>	225	377	438	414	561	1 134	1 941
Other refinery products <b>s</b>	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.