

rural commodities



41 Summary of Australian statistics for coarse grains ^a

	Area '000 ha	Yield t/ha	Production		Exports ^b	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	2 795	1.16	3 244	130	1 114	42
1961-62	2 450	0.97	2 382	105	1 092	46
1962-63	2 396	1.09	2 615	114	599	26
1963-64	2 423	1.08	2 608	117	706	31
1964-65	2 476	1.11	2 760	125	735	34
1965-66	2 710	0.87	2 371	120	478	24
1966-67	3 019	1.28	3 850	180	872	41
1967-68	2 693	0.75	2 023	97	330	16
1968-69	3 185	1.19	3 799	152	853	34
1969-70	3 334	1.10	3 684	134	904	33
1970-71	4 191	1.31	5 474	233	2 196	98
1971-72	4 492	1.29	5 782	223	3 138	135
1972-73	3 891	0.93	3 620	190	1 654	79
1973-74	3 664	1.27	4 671	347	1 739	136
1974-75	3 285	1.35	4 424	404	2 883	280
1975-76	3 868	1.44	5 575	500	3 137	306
1976-77	3 901	1.29	5 019	464	3 294	332
1977-78	4 318	0.98	4 218	347	1 928	177
1978-79	4 663	1.51	7 063	555	2 833	245
1979-80	4 199	1.48	6 215	667	4 467	512
1980-81	4 284	1.22	5 209	701	2 764	430
1981-82	4 847	1.38	6 687	799	3 459	519
1982-83	4 527	0.88	3 966	562	1 808	294
1983-84	5 794	1.64	9 497	1 239	4 548	738
1984-85	5 523	1.59	8 769	1 156	6 466	981
1985-86	5 306	1.53	8 113	974	5 838	826
1986-87	4 436	1.58	6 989	816	3 692	476
1987-88	4 576	1.57	7 162	906	2 506	377
1988-89	4 292	1.57	6 734	1 041	2 466	448
1989-90	3 919	1.79	7 005	1 086	3 336	667
1990-91	4 127	1.64	6 766	870	3 310	576
1991-92	4 624	1.75	8 109	1 151	2 728	487
1992-93	4 690	1.78	8 361	1 176	3 324	611
1993-94	5 041	1.96	9 864	1 241	4 438	701
1994-95	4 258	1.30	5 534	1 125	2 642	452
1995-96	5 294	1.90	10 070	2 050	4 099	1 025
1996-97	5 376	2.02	10 846	1 978	4 815	1 103
1997-98	5 388	1.88	10 102	1 601	3 400	809
1998-99	5 113	2.10	10 721	1 419	5 255	967
1999-00	4 244	2.22	9 435	1 401	4 574	943
2000-01	5 325	2.05	10 914	1 952	4 987	1 261
2001-02	5 806	2.25	13 049	2 583	5 751	1 438
2002-03	5 900	1.17	6 924	1 650	3 765	1 051
2003-04	6 815	2.29	15 630	2 562	5 782	1 373
2004-05	5 525	1.84	10 186	1 877	7 187	1 412

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

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

42 Australian coarse grains area, yield and production, by state ^a

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia ^b
Barley								
Area								
1998-99	'000 ha	638	568	163	811	975	11	3 167
1999-00	'000 ha	476	585	130	550	845	9	2 596
2000-01	'000 ha	615	693	112	983	1 041	10	3 454
2001-02	'000 ha	665	700	96	1 088	1 151	7	3 707
2002-03	'000 ha	636	778	108	1 140	1 194	8	3 864
2003-04	'000 ha	951	872	151	1 278	1 216	9	4 477
2004-05	'000 ha	650	760	90	1 000	1 078	11	3 589
Yield								
1998-99	t/ha	1.95	1.53	1.96	1.81	2.10	2.73	1.89
1999-00	t/ha	2.18	2.03	1.95	2.03	1.67	2.44	1.94
2000-01	t/ha	2.04	2.41	1.03	1.38	2.23	2.60	1.95
2001-02	t/ha	2.08	2.37	1.78	2.08	2.42	3.71	2.23
2002-03	t/ha	0.67	0.61	1.37	1.18	1.21	2.63	1.00
2003-04	t/ha	2.06	2.61	1.74	2.48	2.21	3.11	2.32
2004-05	t/ha	1.98	1.45	2.11	2.08	1.65	2.09	1.80
Production								
1998-99	kt	1 247	870	320	1 469	2 051	30	5 987
1999-00	kt	1 040	1 189	254	1 117	1 409	22	5 032
2000-01	kt	1 253	1 670	115	1 358	2 320	26	6 743
2001-02	kt	1 382	1 656	171	2 263	2 782	26	8 280
2002-03	kt	428	478	148	1 349	1 440	21	3 865
2003-04	kt	1 955	2 275	263	3 170	2 691	28	10 382
2004-05	kt	1 287	1 100	190	2 080	1 774	23	6 454
Oats								
Area								
1998-99	'000 ha	354	188	18	228	112	8	909
1999-00	'000 ha	160	138	10	199	70	6	584
2000-01	'000 ha	168	140	13	248	75	7	650
2001-02	'000 ha	231	142	11	287	108	6	784
2002-03	'000 ha	308	188	9	314	88	4	911
2003-04	'000 ha	449	194	9	344	89	4	1 089
2004-05	'000 ha	355	160	9	250	83	7	864
Yield								
1998-99	t/ha	1.89	2.44	0.83	2.03	1.59	1.75	1.98
1999-00	t/ha	1.78	2.14	1.20	2.21	1.11	1.67	1.91
2000-01	t/ha	1.46	2.51	0.46	1.28	1.56	1.86	1.62
2001-02	t/ha	1.39	2.35	0.64	1.94	1.88	2.00	1.83
2002-03	t/ha	0.48	1.33	0.44	1.52	0.80	1.75	1.05
2003-04	t/ha	1.36	2.61	0.56	2.19	1.54	1.75	1.85
2004-05	t/ha	0.85	1.38	0.44	1.67	1.28	1.29	1.22
Production								
1998-99	kt	669	458	15	463	178	14	1 798
1999-00	kt	284	296	12	439	78	10	1 118
2000-01	kt	246	351	6	317	117	13	1 050
2001-02	kt	320	334	7	557	203	12	1 434
2002-03	kt	149	250	4	477	70	7	957
2003-04	kt	610	507	5	752	137	7	2 018
2004-05	kt	300	220	4	418	106	9	1 057

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia ^b
Sorghum								
Area								
1998-99	'000 ha	216	1	367	2	0	1	587
1999-00	'000 ha	200	1	419	2	0	0	622
2000-01	'000 ha	258	2	494	2	0	0	758
2001-02	'000 ha	258	1	562	0	0	0	823
2002-03	'000 ha	255	0	405	0	0	0	667
2003-04	'000 ha	212	2	519	1	0	0	734
2004-05	'000 ha	205	2	450	2	0	0	659
Yield								
1998-99	t/ha	3.81	2.00	2.89	3.00	0.00	2.00	3.22
1999-00	t/ha	4.02	3.00	3.12	0.75	0.00	0.00	3.40
2000-01	t/ha	2.98	2.00	2.34	2.00	0.00	0.00	2.55
2001-02	t/ha	2.97	4.00	2.22	0.00	0.00	0.00	2.46
2002-03	t/ha	2.08	0.00	2.30	0.00	0.00	0.00	2.20
2003-04	t/ha	3.34	1.00	2.50	1.00	0.00	0.00	2.74
2004-05	t/ha	3.00	2.00	2.50	2.00	0.00	0.00	2.65
Production								
1998-99	kt	822	2	1 059	6	0	2	1 891
1999-00	kt	804	2	1 308	2	0	0	2 116
2000-01	kt	770	4	1 156	4	0	0	1 935
2001-02	kt	767	4	1 247	0	0	0	2 021
2002-03	kt	531	0	930	0	0	0	1 465
2003-04	kt	709	2	1 296	1	0	0	2 009
2004-05	kt	615	4	1 125	4	0	0	1 748
Maize								
Area								
1998-99	'000 ha	27	1	37	1	0	0	64
1999-00	'000 ha	22	1	59	0	0	0	82
2000-01	'000 ha	26	1	47	0	0	0	74
2001-02	'000 ha	28	1	53	0	0	0	83
2002-03	'000 ha	21	1	28	0	0	0	50
2003-04	'000 ha	22	1	48	0	0	0	70
2004-05	'000 ha	22	1	50	2	0	0	75
Yield								
1998-99	t/ha	6.89	3.00	3.92	4.00	0.00	0.00	5.28
1999-00	t/ha	8.07	7.00	3.82	0.00	0.00	0.00	4.95
2000-01	t/ha	6.85	8.00	3.38	0.00	0.00	0.00	4.66
2001-02	t/ha	8.79	9.00	3.74	0.00	0.00	0.00	5.47
2002-03	t/ha	7.76	7.50	4.68	0.00	0.00	0.00	6.20
2003-04	t/ha	8.09	7.00	4.40	0.00	0.00	0.00	5.64
2004-05	t/ha	7.00	7.00	2.90	3.00	0.00	0.00	4.16
Production								
1998-99	kt	186	3	145	4	0	0	338
1999-00	kt	178	4	224	0	0	0	406
2000-01	kt	178	8	159	0	0	0	345
2001-02	kt	246	9	198	0	0	0	454
2002-03	kt	163	8	131	0	0	0	310
2003-04	kt	178	7	211	0	0	0	395
2004-05	kt	154	7	145	6	0	0	312

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia b
Triticale								
Area								
1998-99	'000 ha	143	111	1	29	99	2	386
1999-00	'000 ha	129	114	1	25	88	2	361
2000-01	'000 ha	126	127	1	28	105	2	389
2001-02	'000 ha	138	131	0	29	109	2	409
2002-03	'000 ha	129	136	0	29	109	4	408
2003-04	'000 ha	135	141	3	42	122	2	445
2004-05	'000 ha	107	120	4	15	90	2	338
Yield								
1998-99	t/ha	2.27	1.62	4.00	1.48	1.48	5.00	1.83
1999-00	t/ha	2.89	2.06	5.00	1.40	1.24	3.00	2.12
2000-01	t/ha	2.61	2.49	1.00	1.07	1.50	4.00	2.16
2001-02	t/ha	2.42	2.27	0.00	1.38	1.64	5.00	2.10
2002-03	t/ha	0.94	0.77	0.00	0.79	0.62	2.50	0.80
2003-04	t/ha	2.18	2.09	0.67	1.74	1.25	4.00	1.86
2004-05	t/ha	2.00	1.90	1.40	1.40	1.55	3.60	1.82
Production								
1998-99	kt	324	180	4	43	147	10	707
1999-00	kt	373	235	5	35	109	6	764
2000-01	kt	329	316	1	30	157	8	841
2001-02	kt	334	297	0	40	179	10	860
2002-03	kt	121	105	0	23	68	10	327
2003-04	kt	294	295	2	73	153	8	826
2004-05	kt	214	228	6	21	140	7	615
Total coarse grains								
Area								
1998-99	'000 ha	1 378	869	586	1 071	1 186	22	5 113
1999-00	'000 ha	987	838	619	776	1 003	17	4 244
2000-01	'000 ha	1 193	963	667	1 261	1 221	19	5 325
2001-02	'000 ha	1 320	975	722	1 404	1 368	15	5 806
2002-03	'000 ha	1 349	1 103	550	1 483	1 391	16	5 900
2003-04	'000 ha	1 769	1 210	730	1 665	1 427	15	6 815
2004-05	'000 ha	1 339	1 043	603	1 269	1 251	20	5 525
Yield								
1998-99	t/ha	2.36	1.74	2.63	1.85	2.00	2.55	2.10
1999-00	t/ha	2.71	2.06	2.91	2.05	1.59	2.23	2.22
2000-01	t/ha	2.33	2.44	2.15	1.36	2.12	2.47	2.05
2001-02	t/ha	2.31	2.36	2.25	2.04	2.31	3.20	2.25
2002-03	t/ha	1.03	0.77	2.21	1.25	1.13	2.37	1.17
2003-04	t/ha	2.12	2.55	2.43	2.40	2.09	2.87	2.29
2004-05	t/ha	1.92	1.49	2.44	1.99	1.61	1.96	1.84
Production								
1998-99	kt	3 248	1 513	1 543	1 985	2 376	56	10 721
1999-00	kt	2 679	1 725	1 803	1 593	1 596	38	9 435
2000-01	kt	2 776	2 349	1 437	1 709	2 594	47	10 914
2001-02	kt	3 049	2 300	1 623	2 860	3 164	48	13 049
2002-03	kt	1 392	848	1 213	1 849	1 578	38	6 924
2003-04	kt	3 746	3 086	1 777	3 996	2 981	43	15 630
2004-05	kt	2 570	1 559	1 470	2 529	2 020	39	10 186

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

Sources: ABARE, *Australian Crop Report*, Canberra; ABS, *Selected Agricultural Commodities, Preliminary*, cat. no. 7112.0, Canberra; ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra.

43 Summary of Australian statistics for barley

	Area '000 ha	Yield t/ha	Production		Exports a	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	1 145	1.35	1 542	62	769	29
1961-62	965	0.98	941	44	713	30
1962-63	821	1.09	898	43	234	11
1963-64	815	1.21	984	47	403	18
1964-65	835	1.34	1 119	56	369	18
1965-66	930	1.02	949	48	227	12
1966-67	1 011	1.38	1 397	74	425	22
1967-68	1 057	0.79	835	42	129	7
1968-69	1 341	1.23	1 646	71	451	18
1969-70	1 521	1.12	1 698	66	631	23
1970-71	2 000	1.18	2 351	111	1 123	51
1971-72	2 535	1.21	3 065	124	1 817	74
1972-73	2 140	0.81	1 727	91	804	39
1973-74	1 894	1.27	2 397	190	808	69
1974-75	1 826	1.38	2 515	257	1 760	187
1975-76	2 329	1.36	3 179	314	1 963	201
1976-77	2 321	1.23	2 847	295	2 100	223
1977-78	2 803	0.85	2 383	205	1 325	122
1978-79	2 785	1.44	4 006	339	2 028	174
1979-80	2 481	1.49	3 703	450	3 406	407
1980-81	2 451	1.09	2 682	381	2 076	341
1981-82	2 685	1.29	3 450	463	2 021	340
1982-83	2 452	0.79	1 939	288	1 262	225
1983-84	3 109	1.57	4 890	733	3 468	583
1984-85	3 518	1.58	5 554	759	4 341	665
1985-86	3 284	1.48	4 868	587	4 490	610
1986-87	2 274	1.56	3 548	433	2 637	351
1987-88	2 346	1.46	3 417	455	1 863	293
1988-89	2 190	1.48	3 242	558	1 910	355
1989-90	2 310	1.75	4 044	709	2 917	603
1990-91	2 555	1.61	4 108	568	2 914	512
1991-92	2 744	1.65	4 530	693	2 393	435
1992-93	2 947	1.83	5 397	802	2 825	532
1993-94	3 423	1.95	6 668	845	4 020	631
1994-95	2 470	1.18	2 913	622	2 429	413
1995-96	3 111	1.87	5 823	1 276	3 451	876
1996-97	3 367	1.99	6 696	1 308	4 370	999
1997-98	3 521	1.84	6 482	1 032	2 982	726
1998-99	3 167	1.89	5 987	836	4 714	877
1999-00	2 596	1.94	5 032	865	3 832	822
2000-01	3 454	1.95	6 743	1 344	4 142	1 101
2001-02	3 707	2.23	8 280	1 725	4 989	1 278
2002-03	3 864	1.00	3 865	984	3 462	954
2003-04	4 477	2.32	10 382	1 750	5 308	1 239
2004-05	3 589	1.80	6 454	1 162	6 500	1 274

a Including grains and the grain equivalent of malt exported.

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

44 Summary of Australian statistics for oats

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	1 472	0.94	1 381	51	345	14
1961-62	1 523	0.66	1 000	40	346	15
1962-63	1 332	0.94	1 248	51	322	14
1963-64	1 373	0.90	1 238	50	303	13
1964-65	1 415	0.90	1 271	51	366	16
1965-66	1 525	0.72	1 102	53	251	12
1966-67	1 723	1.13	1 943	83	402	18
1967-68	1 368	0.53	719	34	182	8
1968-69	1 567	1.09	1 710	59	333	13
1969-70	1 374	0.91	1 247	33	219	8
1970-71	1 484	1.09	1 614	54	556	24
1971-72	1 237	1.03	1 275	37	329	12
1972-73	995	0.74	736	32	115	5
1973-74	1 182	0.94	1 107	67	184	14
1974-75	897	0.98	874	60	267	20
1975-76	988	1.16	1 141	78	359	33
1976-77	995	1.08	1 072	74	364	33
1977-78	1 076	0.92	991	69	218	20
1978-79	1 359	1.30	1 763	100	290	25
1979-80	1 123	1.26	1 411	99	472	44
1980-81	1 093	1.03	1 128	140	196	28
1981-82	1 388	1.16	1 617	156	153	24
1982-83	1 212	0.70	848	116	83	13
1983-84	1 772	1.30	2 296	204	289	41
1984-85	1 041	1.31	1 367	130	391	49
1985-86	1 068	1.24	1 330	138	185	25
1986-87	1 140	1.39	1 584	165	192	27
1987-88	1 275	1.33	1 698	191	215	31
1988-89	1 309	1.40	1 838	233	253	46
1989-90	1 089	1.51	1 640	178	231	35
1990-91	1 043	1.47	1 530	147	214	34
1991-92	1 160	1.46	1 690	182	141	21
1992-93	1 150	1.68	1 937	209	266	40
1993-94	947	1.74	1 647	148	223	33
1994-95	897	1.03	924	166	96	18
1995-96	1 136	1.65	1 875	289	233	50
1996-97	1 052	1.57	1 653	227	124	26
1997-98	937	1.74	1 634	223	155	30
1998-99	909	1.98	1 798	157	257	38
1999-00	584	1.91	1 118	118	160	27
2000-01	650	1.62	1 050	138	97	22
2001-02	784	1.83	1 434	251	130	37
2002-03	911	1.05	957	210	177	66
2003-04	1 089	1.85	2 018	279	172	66
2004-05	864	1.22	1 057	203	165	36

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

45 Summary of Australian statistics for sorghum

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	103	1.58	163	6	0	0
1961-62	147	1.74	255	10	33	1
1962-63	158	1.76	279	10	44	2
1963-64	148	1.45	215	9	0	0
1964-65	140	1.39	195	8	0	0
1965-66	175	1.11	195	9	0	0
1966-67	203	1.57	319	13	46	2
1967-68	187	1.54	288	12	19	1
1968-69	236	1.25	294	14	69	3
1969-70	359	1.53	547	24	54	2
1970-71	552	2.35	1 298	57	517	24
1971-72	638	1.92	1 228	51	992	48
1972-73	697	1.46	1 018	59	736	35
1973-74	540	1.97	1 061	80	748	54
1974-75	511	1.76	901	76	856	73
1975-76	504	2.23	1 123	96	815	72
1976-77	532	1.80	956	80	829	76
1977-78	394	1.81	714	59	385	36
1978-79	469	2.40	1 125	97	516	46
1979-80	519	1.78	922	96	580	60
1980-81	658	1.83	1 203	152	463	58
1981-82	648	2.03	1 316	140	1 271	153
1982-83	708	1.35	958	124	445	54
1983-84	730	2.58	1 886	246	772	111
1984-85	723	1.89	1 369	197	1 594	242
1985-86	733	1.93	1 416	181	1 082	178
1986-87	818	1.74	1 419	162	818	91
1987-88	765	2.13	1 633	203	415	51
1988-89	625	1.99	1 244	188	290	43
1989-90	376	2.50	939	136	158	23
1990-91	376	1.99	747	99	166	25
1991-92	567	2.54	1 443	204	183	29
1992-93	426	1.28	546	87	211	34
1993-94	498	2.17	1 082	173	173	32
1994-95	687	1.85	1 272	242	111	19
1995-96	770	2.07	1 592	320	411	97
1996-97	544	2.62	1 425	257	299	70
1997-98	507	2.13	1 081	183	251	50
1998-99	587	3.22	1 891	282	265	46
1999-00	622	3.40	2 116	260	539	81
2000-01	758	2.55	1 935	279	691	122
2001-02	823	2.46	2 021	349	586	109
2002-03	667	2.20	1 465	300	70	17
2003-04	734	2.74	2 009	319	289	61
2004-05	659	2.65	1 748	313	513	96

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

46 Summary of Australian statistics for maize

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1960-61	75	2.12	159	11	0	0
1961-62	85	2.18	186	11	0	0
1962-63	85	2.23	189	10	1	0
1963-64	87	1.96	171	10	0	0
1964-65	86	2.03	175	10	0	0
1965-66	80	1.57	125	10	0	0
1966-67	82	2.33	190	10	0	0
1967-68	81	2.23	181	9	0	0
1968-69	67	2.24	149	9	0	0
1969-70	80	2.41	192	11	1	0
1970-71	86	2.47	212	10	22	1
1971-72	78	2.74	214	10	38	2
1972-73	59	2.34	139	9	9	0
1973-74	46	2.32	106	9	3	0
1974-75	51	2.60	134	12	1	0
1975-76	47	2.82	132	12	11	1
1976-77	53	2.72	144	13	33	3
1977-78	45	2.86	130	12	11	2
1978-79	50	3.37	168	16	17	1
1979-80	54	2.79	151	20	8	1
1980-81	56	3.05	172	26	29	3
1981-82	61	3.49	212	30	14	2
1982-83	64	2.18	138	23	18	2
1983-84	67	3.53	237	36	19	3
1984-85	102	2.84	288	46	140	25
1985-86	83	3.33	277	40	81	13
1986-87	57	3.62	205	31	46	7
1987-88	54	3.85	207	30	12	2
1988-89	51	4.23	216	34	13	4
1989-90	52	4.21	218	39	30	5
1990-91	48	3.99	193	32	16	5
1991-92	52	5.20	268	48	12	3
1992-93	45	4.43	198	42	21	5
1993-94	44	4.64	204	41	22	6
1994-95	50	4.83	242	59	6	3
1995-96	56	5.59	311	69	4	2
1996-97	67	5.94	398	80	22	8
1997-98	57	4.77	272	55	11	3
1998-99	64	5.28	338	61	19	6
1999-00	82	4.95	406	62	43	12
2000-01	74	4.66	345	65	56	16
2001-02	83	5.47	454	90	46	14
2002-03	50	6.20	310	72	54	13
2003-04	70	5.64	395	88	13	6
2004-05	75	4.16	312	80	9	6

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

47 Summary of Australian statistics for triticale

	Area '000 ha	Yield t/ha	Production		Exports	
			Volume kt	Value \$m	Volume kt	Value \$m
1979-80	22	1.30	29	3	0	0
1980-81	26	0.90	24	3	0	0
1981-82	64	1.42	91	10	0	0
1982-83	92	0.89	82	11	0	0
1983-84	116	1.62	188	21	0	0
1984-85	140	1.36	190	24	0	0
1985-86	137	1.62	222	28	0	0
1986-87	148	1.57	233	26	0	0
1987-88	136	1.53	208	27	0	0
1988-89	116	1.68	195	28	0	0
1989-90	91	1.80	164	25	0	0
1990-91	104	1.81	189	24	0	0
1991-92	101	1.76	177	25	0	0
1992-93	122	2.32	282	37	0	0
1993-94	129	2.04	263	35	0	0
1994-95	153	1.19	182	35	0	0
1995-96	221	2.12	469	95	0	0
1996-97	346	1.95	674	107	1	0
1997-98	366	1.73	633	108	2	0
1998-99	386	1.83	707	85	0	0
1999-00	361	2.12	764	96	0	0
2000-01	389	2.16	841	126	0	0
2001-02	409	2.10	860	168	0	0
2002-03	408	0.80	327	84	0	0
2003-04	445	1.86	826	126	0	0
2004-05	338	1.82	615	120	0	0

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

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

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

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

49 Australian coarse grains supply and disposal, by grain ^a

	Area '000 ha	Production kt	Exports ^b kt	Estimated domestic disposals	
				Feed and food kt	Seed ^c kt
Barley ^d					
1999-00	2 596	5 032	3 325	1 854	155
2000-01	3 454	6 743	4 567	2 158	167
2001-02	3 707	8 280	5 274	2 361	174
2002-03	3 864	3 865	2 608	1 815	201
2003-04	4 477	10 382	6 996	2 268	162
2004-05	3 589	6 454	4 819	2 472	172
Oats					
1999-00	584	1 118	135	951	31
2000-01	650	1 050	86	927	38
2001-02	784	1 434	190	1 200	44
2002-03	911	957	121	784	52
2003-04	1 089	2 018	210	1 766	41
2004-05	864	1 057	139	877	41
Sorghum					
1999-00	622	2 116	665	1 448	4
2000-01	758	1 935	501	1 429	4
2001-02	823	2 021	375	1 643	3
2002-03	667	1 465	64	1 397	4
2003-04	734	2 009	623	1 382	3
2004-05	659	1 748	312	1 433	4
Maize					
1999-00	82	406	53	352	1
2000-01	74	345	45	298	1
2001-02	83	454	63	440	1
2002-03	50	310	16	293	1
2003-04	70	395	10	384	1
2004-05	75	312	10	301	1
Triticale					
1999-00	361	764	0	744	19
2000-01	389	841	0	821	20
2001-02	409	860	0	840	20
2002-03	408	327	0	305	22
2003-04	445	826	0	809	17
2004-05	338	615	0	598	17
Total					
1999-00	4 244	9 435	4 179	5 349	211
2000-01	5 325	10 914	5 201	5 633	230
2001-02	5 806	13 049	5 903	6 483	242
2002-03	5 900	6 924	2 810	4 593	281
2003-04	6 815	15 630	7 844	6 610	224
2004-05	5 525	10 186	5 280	5 681	236

^a Crop years are November–October for barley, oats and triticale, and March–February for sorghum and maize. ^b Exports may include carryover from earlier harvests. ^c Estimated using the following seeding rates for grain crops: sorghum 5 kg/ha; barley 45 kg/ha; maize 15 kg/ha; oats 48 kg/ha; triticale 50 kg/ha. ^d Malt use is expressed as barley equivalent = malt x 1.2. Approximately 1000 tonnes of pearled cooking barley is also included annually.

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

50 Australian feedgrains prices

	Barley a \$/t	Oats b \$/t	Sorghum c \$/t	Maize c \$/t	Feed wheat c \$/t	Triticale c \$/t
1978-79	76.66	64.73	85.86	102.60	116.61	na
1979-80	97.06	78.48	103.28	na	140.50	na
1980-81	139.41	141.44	135.33	na	151.37	na
1981-82	111.19	105.60	112.95	129.90	149.78	na
1982-83	158.14	na	na	na	184.11	na
1983-84	122.86	96.07	127.82	160.63	175.24	na
1984-85	110.20	104.99	131.69	147.48	204.36	123.32
1985-86	109.47	100.68	126.71	143.76	193.82	121.17
1986-87	106.38	100.83	111.42	135.60	170.12	111.23
1987-88	117.93	109.09	129.02	154.84	189.54	132.25
1988-89	142.35	124.35	152.19	175.95	221.84	147.43
1989-90	151.67	116.15	152.77	176.25	171.00	155.60
1990-91	123.58	107.79	136.79	167.53	135.83	125.17
1991-92	147.28	141.02	172.75	189.15	159.67	150.56
1992-93	130.65	105.43	148.91	181.98	143.50	132.82
1993-94	127.30	105.27	168.60	229.58	137.58	135.59
1994-95	227.00	237.96	215.74	276.08	232.75	229.58
1995-96	226.80	171.69	223.69	244.02	234.72	220.22
1996-97	180.73	143.10	174.79	207.61	188.38	178.47
1997-98	179.48	171.49	182.37	215.50	185.93	184.23
1998-99	133.48	110.44	141.63	173.38	155.38	130.84
1999-00	141.03	103.23	130.58	161.14	153.63	138.95
2000-01	173.80	136.96	162.60	186.58	171.83	176.29
2001-02	202.95	191.46	187.52	224.90	211.87	211.96
2002-03	304.78	333.85	288.89	343.07	309.69	308.47
2003-04	203.16	180.43	194.70	254.06	221.51	210.28
2004-05	178.59	171.27	172.20	226.80	194.66	189.14
2004						
January	182.50	136.25	197.25	247.50	206.75	188.50
February	173.75	156.25	173.75	245.00	210.00	187.50
March	173.60	163.40	182.20	235.00	215.40	190.20
April	183.75	166.25	191.50	228.75	221.25	199.50
May	195.75	177.50	201.75	235.00	231.25	211.00
June	192.20	169.00	190.00	245.00	231.00	211.60
July	180.50	155.00	180.75	237.50	211.25	191.25
August	181.50	155.00	178.25	245.00	209.00	188.75
September	177.20	145.00	174.40	247.00	200.60	186.00
October	165.50	142.50	175.25	232.50	197.75	178.75
November	156.50	151.25	181.50	222.50	188.75	188.75
December	165.00	150.00	180.00	220.00	183.00	186.67
2005						
January	169.33	160.00	165.00	213.33	175.00	180.00
February	165.50	168.00	148.00	205.00	173.25	177.50
March	170.00	176.20	150.60	204.00	178.80	180.00
April	175.50	185.00	161.25	217.50	183.00	184.50
May	208.50	221.25	179.75	231.25	212.50	202.50
June	228.00	246.00	191.60	246.00	223.00	225.00
July	209.00	248.75	173.50	232.50	208.00	215.00
August	201.40	212.00	165.20	212.00	199.20	204.20

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

Sources: The Land, Rural Press Ltd.

51 Summary of world statistics for coarse grains

	Area million ha	Production Mt	Use Mt	Closing stocks ^a		Stocks to use ratio %	Trade ^b Mt	Use per person kg	Price ^c US\$/t
				World Mt	United States Mt				
1960-61	316	439.3	430.6	109.8	77	25	24	143	na
1961-62	315	432.2	435.0	103.6	67	24	31	142	46.0
1962-63	314	448.6	450.0	101.4	59	23	32	143	51.0
1963-64	321	458.3	452.8	106.1	64	23	35	140	55.0
1964-65	315	460.5	465.7	98.1	51	21	35	143	56.0
1965-66	313	472.4	484.3	80.3	40	17	41	147	55.0
1966-67	315	508.8	505.4	83.3	36	16	43	148	60.0
1967-68	319	533.4	521.2	94.4	46	18	43	150	50.0
1968-69	318	533.8	530.5	97.8	47	18	41	149	49.0
1969-70	323	558.0	553.2	97.8	46	18	43	154	54.0
1970-71	323	559.2	569.2	83.5	32	15	52	155	63.0
1971-72	324	617.4	598.4	99.6	47	17	57	159	52.0
1972-73	317	594.2	608.0	81.2	32	13	61	159	72.0
1973-74	335	659.3	655.7	79.8	22	12	68	168	114.0
1974-75	333	622.6	610.6	88.8	21	15	63	153	132.0
1975-76	339	641.0	632.8	92.8	24	15	74	156	116.0
1976-77	342	692.0	668.6	113.8	37	17	81	162	108.0
1977-78	344	691.0	676.4	124.0	50	18	87	161	95.0
1978-79	341	744.1	722.7	143.3	58	20	91	169	103.0
1979-80	341	735.5	731.1	153.2	64	21	97	166	115.0
1980-81	341	723.4	726.5	142.6	44	20	107	166	142.0
1981-82	349	759.0	737.7	168.4	78	23	96	162	118.0
1982-83	339	775.3	749.0	202.2	109	27	92	161	115.0
1983-84	334	678.1	743.3	133.1	40	18	92	160	146.0
1984-85	335	806.0	766.7	171.9	58	22	99	161	124.0
1985-86	341	833.7	763.5	242.2	127	32	82	157	106.0
1986-87	338	823.8	785.1	277.9	153	35	85	160	77.0
1987-88	325	787.1	796.9	263.3	134	33	88	159	86.0
1988-89	325	723.0	780.8	203.4	66	26	99	153	118.0
1989-90	323	794.6	815.3	182.5	46	22	105	157	110.7
1990-91	317	828.7	814.4	195.2	48	24	89	154	106.5
1991-92	323	812.5	812.8	194.4	34	24	96	151	110.4
1992-93	326	869.4	834.6	219.3	63	26	92	153	97.9
1993-94	318	798.2	832.8	181.1	27	22	87	150	114.8
1994-95	324	869.2	854.6	196.5	45	23	99	152	105.3
1995-96	315	801.0	829.9	161.8	14	20	88	145	160.1
1996-97	323	909.1	866.8	201.7	27	23	94	149	132.4
1997-98	311	881.2	866.4	215.8	38	25	86	147	112.4
1998-99	309	890.5	869.0	237.2	51	27	97	147	94.5
1999-00	300	876.9	876.2	231.8	49	26	105	147	89.9
2000-01	297	861.3	881.6	209.3	53	24	104	144	86.6
2001-02	301	891.8	905.5	195.6	45	22	103	146	90.1
2002-03	293	873.6	902.1	167.1	31	19	104	138	107.3
2003-04	307	913.8	945.4	135.4	29	14	103	143	115.0
2004-05	302	1 008.2	972.1	171.5	59	18	101	144	97.5

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

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

52 World coarse grains production, by region and country

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

a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. **b** World totals do not necessarily equal those of other tables as a result of the different sources used.

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

53 World coarse grains production, by grain

	Corn Mt	Barley Mt	Sorghum Mt	Oats Mt	Total a Mt
1960-61	199.6	78.9	40.8	55.9	439.3
1961-62	207.8	74.3	38.6	48.9	432.2
1962-63	207.3	87.1	41.8	48.7	448.6
1963-64	217.1	89.2	43.7	45.8	458.3
1964-65	215.4	96.3	41.6	42.6	460.5
1965-66	225.5	92.7	46.4	44.6	472.4
1966-67	250.1	102.5	49.3	46.3	508.8
1967-68	262.2	105.0	53.3	48.1	533.4
1968-69	252.5	115.0	51.5	51.5	533.8
1969-70	270.0	118.0	54.8	51.9	558.0
1970-71	268.1	119.8	55.1	51.6	559.2
1971-72	308.5	131.4	57.7	53.8	617.4
1972-73	301.4	132.5	54.0	47.6	594.2
1973-74	330.5	146.0	65.9	49.7	659.3
1974-75	299.8	149.6	60.3	46.7	622.6
1975-76	339.2	136.0	63.8	44.6	641.0
1976-77	356.1	166.2	62.2	45.8	692.0
1977-78	365.4	157.1	64.4	48.4	691.0
1978-79	392.1	175.6	63.6	48.5	744.1
1979-80	425.6	153.8	61.5	42.5	735.5
1980-81	408.7	157.4	59.4	41.5	723.4
1981-82	441.8	149.5	70.4	40.2	759.0
1982-83	439.9	161.2	65.2	46.2	775.3
1983-84	348.3	158.5	58.5	43.5	678.1
1984-85	458.4	170.5	65.8	45.8	806.0
1985-86	479.0	173.6	70.2	47.0	833.7
1986-87	475.4	178.1	64.5	44.6	823.8
1987-88	451.0	175.3	56.6	40.6	787.1
1988-89	400.9	164.0	54.6	35.4	723.0
1989-90	462.0	166.1	55.4	39.3	794.6
1990-91	482.1	179.0	53.8	39.3	828.7
1991-92	493.2	169.8	53.7	33.0	812.5
1992-93	536.1	166.2	65.6	33.9	869.4
1993-94	476.0	169.2	55.5	35.4	798.2
1994-95	559.0	160.7	57.7	32.9	869.2
1995-96	515.9	141.6	55.4	28.6	801.0
1996-97	592.6	153.6	69.7	30.6	909.1
1997-98	573.8	154.2	58.1	31.0	881.2
1998-99	605.3	135.7	60.8	25.7	890.5
1999-00	606.8	127.5	59.4	24.1	876.9
2000-01	589.5	132.9	53.8	26.0	861.3
2001-02	599.1	141.5	58.3	27.0	891.8
2002-03	601.7	133.9	52.7	25.7	873.6
2003-04	623.3	142.6	59.0	26.6	913.8
2004-05	708.9	153.0	58.1	25.7	1 008.2

a Includes rye, millet and mixed grain.

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

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

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

a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. **b** Includes some unspecified countries.

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

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

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

^a Marketing years of individual countries. ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. Excludes intra-EU trade. ^c Includes some unspecified countries.

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

56 Volume of world barley trade, by region and country

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

^a Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00. Excludes intra-EU trade. ^b Includes some unspecified countries.

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

57 Volume of world sorghum trade, by country

	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
	Mt	Mt	Mt	Mt	Mt	Mt	Mt	Mt
Imports								
Chinese Taipei	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1
European Union a	0.2	0.3	0.3	0.0	0.0	0.0	1.6	0.2
Israel	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.1
Japan	2.8	2.5	2.2	2.0	1.8	1.6	1.4	1.4
Mexico	3.4	3.3	4.9	5.0	4.8	3.4	3.0	3.1
Total b	6.9	6.7	8.2	7.6	7.0	5.5	6.5	5.4
Exports								
Argentina	1.3	0.6	0.9	0.4	0.4	0.6	0.2	0.3
Australia	0.2	0.5	0.9	0.6	0.4	0.1	0.6	0.3
United States	5.4	5.0	6.5	6.0	6.1	4.7	5.0	4.7
Total b	7.0	6.3	8.5	7.3	7.1	5.7	6.5	5.6

a Regarded as fifteen countries to 1998-99 then twenty five countries from 1999-00. Excludes intra-EU trade. **b** Includes some unspecified countries.

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

58 US coarse grains supply and disposal

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

a Commodity Credit Corporation.

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

59 US corn supply and disposal ^a

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

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

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

60 US sorghum and barley supply and disposal

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

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

61 Feedgrains export price quotations, by category

	US no. 2 hard red winter wheat (Gulf) a US\$/t	US no. 2 yellow corn (Gulf) a US\$/t	US no. 2 sorghum (Gulf) a US\$/t	US no. 2 barley (Portland) b US\$/t
1979-80	175.0	115.0	116.0	135.0
1980-81	183.0	142.0	141.0	149.0
1981-82	170.0	118.0	114.0	131.0
1982-83	160.0	115.0	114.0	116.0
1983-84	154.0	146.0	131.0	138.0
1984-85	148.0	124.0	110.0	119.0
1985-86	128.0	106.0	94.0	100.0
1986-87	110.5	77.0	71.0	94.0
1987-88	123.4	86.0	80.0	101.0
1988-89	165.8	118.0	103.5	127.0
1989-90	160.8	110.7	103.7	123.0
1990-91	117.9	106.5	104.4	118.0
1991-92	151.0	110.4	109.7	122.0
1992-93	141.3	97.9	95.8	115.0
1993-94	141.5	114.8	111.9	112.0
1994-95	156.4	105.3	103.7	119.1
1995-96	215.3	160.1	156.9	166.9
1996-97	178.5	132.4	124.5	137.8
1997-98	141.8	112.4	113.3	118.2
1998-99	119.1	94.5	94.5	95.9
1999-00	113.2	89.9	88.6	105.3
2000-01	128.5	86.6	95.6	110.6
2001-02	127.5	90.1	99.9	111.6
2002-03	160.5	107.3	120.7	128.5
2003-04	160.5	115.0	127.9	132.3
2004-05	153.9	97.5	108.8	114.8
2004				
January	170.1	116.1	135.6	131.0
February	164.1	123.2	138.7	132.0
March	169.0	128.9	140.5	131.0
April	171.9	133.5	141.7	128.9
May	164.3	129.6	133.1	132.0
June	157.5	122.2	120.0	132.5
July	152.4	104.0	107.5	123.9
August	145.0	104.1	116.3	112.7
September	156.0	97.9	112.6	104.8
October	155.0	93.5	107.3	101.8
November	162.0	93.9	107.6	110.6
December	160.0	95.8	105.2	116.2
2005				
January	157.0	96.2	107.2	115.3
February	154.0	94.5	107.4	118.1
March	158.0	100.0	111.0	120.7
April	148.0	96.5	107.2	118.3
May	149.0	95.5	108.2	119.4
June	150.0	97.9	108.4	116.2
July	149.0	105.8	112.7	121.2
August	158.0	99.5	110.1	126.1

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

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

62 Coarse grains supply and disposal in major exporting countries

	Area harvested million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports Mt	Closing stocks Mt
United States (September–August)						
1998-99	36.2	7.50	271.5	205.3	56.0	51.3
1999-00	35.0	7.51	263.0	211.9	56.3	48.9
2000-01	35.6	7.67	273.1	215.4	56.6	52.6
2001-02	33.9	7.72	261.7	216.8	55.1	45.1
2002-03	33.5	7.28	243.7	214.7	45.7	30.9
2003-04	34.8	7.90	275.1	226.0	53.8	28.8
2004-05	34.9	9.15	319.5	240.3	51.4	58.8
Canada (August–July) a						
1998-99	7.4	3.60	26.6	23.6	3.3	4.9
1999-00	6.9	3.87	26.8	23.5	3.6	5.7
2000-01	7.2	3.35	24.0	24.5	3.7	4.3
2001-02	6.9	3.26	22.6	25.0	2.5	3.5
2002-03	6.2	3.20	19.9	22.8	1.7	3.1
2003-04	7.5	3.49	26.3	23.8	3.6	4.1
2004-05	6.7	3.94	26.4	24.4	2.8	5.8
Argentina (March–February)						
1998-99	3.9	4.57	17.8	10.0	8.6	1.6
1999-00	4.5	4.86	21.7	9.1	12.9	1.3
2000-01	4.1	4.82	19.6	9.4	10.3	1.2
2001-02	3.7	5.07	18.7	7.6	11.4	1.0
2002-03	3.6	5.34	19.4	7.4	11.9	1.0
2003-04	3.4	5.50	18.6	7.4	11.3	1.0
2004-05	3.9	6.14	23.9	9.1	14.6	1.2
Australia (November–October)						
1998-99	5.1	2.10	10.7	6.1	5.5	0.8
1999-00	4.2	2.22	9.4	5.6	4.2	0.7
2000-01	5.3	2.05	10.9	5.9	5.2	1.3
2001-02	5.8	2.25	13.0	6.7	5.9	2.0
2002-03	5.9	1.17	6.9	4.9	2.8	1.2
2003-04	6.8	2.29	15.6	6.8	7.8	2.1
2004-05	5.5	1.84	10.2	5.9	5.3	1.5
European Union (July–June) b						
1998-99	20.0	5.25	105.1	97.4	9.2	22.2
1999-00	29.1	4.60	133.5	126.7	15.2	21.1
2000-01	29.0	4.57	132.7	131.0	10.7	17.6
2001-02	29.5	4.75	140.1	134.4	8.0	21.2
2002-03	29.2	4.75	138.7	136.1	8.6	21.5
2003-04	29.0	4.25	123.0	135.5	4.4	12.6
2004-05	29.1	5.18	150.6	139.6	4.1	22.6
World						
1998-99	308.5	2.88	890.5	869.0	96.7	237.2
1999-00	300.0	2.92	876.9	876.2	104.8	231.8
2000-01	296.9	2.97	861.3	881.6	104.4	209.3
2001-02	301.2	2.96	891.8	902.7	102.7	195.6
2002-03	293.0	2.98	873.6	900.6	104.3	167.1
2003-04	306.8	2.98	913.8	942.2	103.1	135.4
2004-05	302.2	3.34	1 008.2	969.5	100.8	171.5

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

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

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

63 Australian cotton area harvested and lint yield ^a

	Area harvested			Lint yield		
	New South Wales '000 ha	Queensland '000 ha	Australia ^b '000 ha	New South Wales t/ha	Queensland t/ha	Australia ^b t/ha
1960-61	na	na	15.0	na	na	0.173
1961-62	na	na	11.7	na	na	0.188
1962-63	na	na	15.3	na	na	0.118
1963-64	na	na	15.6	na	na	0.161
1964-65	7.3	7.9	15.3	0.942	0.207	0.555
1965-66	12.5	5.9	22.2	1.247	0.326	0.788
1966-67	12.3	5.5	21.5	0.927	0.541	0.668
1967-68	19.4	5.2	31.1	1.301	0.731	0.933
1968-69	22.3	6.3	32.5	1.158	0.722	0.935
1969-70	23.1	5.9	31.7	0.880	0.735	0.778
1970-71	26.4	5.2	35.1	0.485	0.596	0.454
1971-72	29.3	6.9	40.1	1.133	0.957	0.993
1972-73	31.7	8.0	43.6	0.744	0.600	0.651
1973-74	31.0	7.1	41.7	0.703	0.930	0.681
1974-75	27.5	7.4	38.5	0.982	0.797	0.854
1975-76	23.9	6.0	29.8	0.853	0.750	0.834
1976-77	24.8	8.9	35.3	0.847	0.787	0.794
1977-78	31.6	9.6	41.6	1.104	0.969	1.063
1978-79	36.1	13.4	49.8	1.102	0.993	1.065
1979-80	51.4	20.0	75.0	1.243	0.965	1.109
1980-81	61.6	22.0	83.6	1.252	0.991	1.183
1981-82	74.5	29.0	103.5	1.456	0.900	1.300
1982-83	71.9	24.6	96.5	1.043	1.049	1.045
1983-84	104.5	32.9	137.4	1.027	1.033	1.028
1984-85	131.2	51.9	183.1	1.538	0.904	1.358
1985-86	135.8	41.2	177.0	1.593	1.238	1.510
1986-87	125.0	31.0	156.0	1.451	1.297	1.420
1987-88	163.6	80.9	244.6	1.204	0.890	1.100
1988-89	140.8	53.3	194.1	1.577	1.332	1.510
1989-90	175.0	64.8	239.8	1.346	1.077	1.273
1990-91	202.0	77.0	279.0	1.678	1.403	1.602
1991-92	225.0	87.0	312.0	1.812	1.688	1.777
1992-93	204.0	82.0	286.0	1.478	1.314	1.431
1993-94	210.0	84.0	294.0	1.301	1.123	1.250
1994-95	157.0	89.0	246.0	1.594	1.402	1.524
1995-96	185.5	118.4	303.9	1.460	1.270	1.386
1996-97	277.0	119.1	396.1	1.599	1.403	1.540
1997-98	299.3	138.8	438.2	1.588	1.371	1.519
1998-99	381.7	179.9	561.5	1.243	1.341	1.274
1999-00	313.0	151.3	464.3	1.574	1.638	1.595
2000-01	327.9	199.4	527.3	1.627	1.432	1.553
2001-02	289.7	119.3	409.0	1.771	1.594	1.719
2002-03	165.2	59.3	224.5	1.830	1.430	1.724
2003-04	97.2	100.8	198.1	1.849	1.680	1.763
2004-05	162.8	158.1	320.9	2.136	1.881	2.011

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

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

64 Australian cottonseed and lint production ^a

	Cottonseed production			Lint production		
	New South Wales kt	Queensland kt	Australia ^b kt	New South Wales kt	Queensland kt	Australia ^b kt
1960-61	na	na	4.5	na	na	2.6
1961-62	na	na	3.8	na	na	2.2
1962-63	na	na	3.1	na	na	1.8
1963-64	na	na	4.4	na	na	2.5
1964-65	11.8	2.8	17.4	6.9	1.6	8.5
1965-66	27.0	3.3	35.4	15.6	1.9	17.5
1966-67	20.0	5.2	32.1	11.4	3.0	14.4
1967-68	43.9	6.6	57.3	25.2	3.8	29.0
1968-69	44.9	8.0	58.5	25.8	4.5	30.4
1969-70	35.5	7.7	48.3	20.3	4.3	24.7
1970-71	22.3	5.4	31.9	12.8	3.1	15.9
1971-72	52.8	12.7	69.1	33.2	6.6	39.8
1972-73	36.4	10.7	50.7	23.6	4.8	28.4
1973-74	35.7	10.8	49.8	21.8	6.6	28.4
1974-75	44.1	9.7	53.8	27.0	5.9	32.9
1975-76	33.2	7.4	40.6	20.4	4.5	24.9
1976-77	34.9	11.7	46.6	21.0	7.0	28.0
1977-78	56.9	15.2	72.1	34.9	9.3	44.2
1978-79	56.8	21.7	78.5	39.8	13.3	53.1
1979-80	104.3	31.5	135.8	63.9	19.3	83.2
1980-81	125.8	35.6	161.4	77.1	21.8	98.9
1981-82	176.5	42.6	219.1	108.5	26.1	134.6
1982-83	112.3	42.1	154.4	75.0	25.8	100.8
1983-84	135.0	55.2	190.2	107.3	34.0	141.3
1984-85	308.2	102.2	410.4	201.8	46.9	248.7
1985-86	308.0	74.0	382.0	216.3	51.0	267.3
1986-87	281.6	48.4	330.0	181.4	40.2	221.6
1987-88	333.9	101.1	435.0	197.0	72.0	269.0
1988-89	345.0	74.3	419.3	222.0	71.0	293.0
1989-90	380.0	113.0	493.0	235.6	69.8	305.3
1990-91	526.0	160.0	686.0	339.0	108.0	447.0
1991-92	563.0	186.0	749.0	407.6	146.9	554.5
1992-93	365.1	162.4	527.5	301.5	107.7	409.3
1993-94	334.2	131.3	465.5	273.2	94.3	367.5
1994-95	286.5	187.1	473.6	250.2	124.8	375.0
1995-96	382.4	212.4	594.8	270.8	150.4	421.2
1996-97	627.5	232.6	860.1	443.0	167.1	610.1
1997-98	672.3	269.0	941.3	475.3	190.3	665.7
1998-99	677.5	346.9	1 024.4	474.4	241.2	715.6
1999-00	695.7	350.4	1 046.2	492.7	247.8	740.5
2000-01	740.5	399.5	1 140.0	533.5	285.5	819.0
2001-02	777.1	276.4	1 053.5	513.1	190.1	703.3
2002-03	425.3	120.5	545.8	302.3	84.7	387.1
2003-04	254.2	239.6	493.7	179.7	169.4	349.1
2004-05	491.8	420.5	912.3	347.8	297.3	645.1

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

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

65 Australian production, trade and use of raw cotton

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

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

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

66 Volume of Australian exports of raw cotton, by destination

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

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

67 Cotton prices and unit values

	Cotlook 'A' index ^a USc/lb	Australian base price for raw cotton ^b Ac/kg	Average unit export return for raw cotton Ac/kg
1960-61	na	57.0	na
1961-62	na	59.0	na
1962-63	na	59.0	na
1963-64	na	57.0	na
1964-65	na	57.0	na
1965-66	na	57.0	na
1966-67	28.4	55.0	na
1967-68	31.3	58.0	na
1968-69	28.8	60.0	51.4
1969-70	28.0	58.0	44.3
1970-71	31.1	65.0	45.9
1971-72	37.2	72.0	66.7
1972-73	42.0	72.0	50.7
1973-74	76.5	120.0	56.3
1974-75	52.5	90.0	70.1
1975-76	65.3	117.0	71.9
1976-77	81.9	166.0	129.1
1977-78	65.1	135.0	111.2
1978-79	76.1	156.0	120.8
1979-80	85.4	179.0	137.9
1980-81	94.2	192.0	155.9
1981-82	73.8	164.0	148.1
1982-83	76.7	199.0	153.5
1983-84	87.7	237.0	180.5
1984-85	69.2	226.0	187.1
1985-86	49.0	174.0	157.7
1986-87	62.1	211.0	137.5
1987-88	72.3	237.0	200.6
1988-89	66.4	186.6	161.1
1989-90	82.4	247.7	189.5
1990-91	82.9	249.5	217.1
1991-92	63.1	198.4	206.3
1992-93	57.7	197.6	190.8
1993-94	70.6	234.4	203.0
1994-95	91.1	286.5	228.8
1995-96	85.5	262.7	244.8
1996-97	78.6	235.0	213.2
1997-98	72.2	248.6	233.5
1998-99	60.2	227.5	241.1
1999-00	52.5	199.2	200.1
2000-01	57.2	256.1	234.7
2001-02	41.8	193.8	215.4
2002-03	55.4	221.6	193.4
2003-04	68.3	225.0	214.0
2004-05	52.2	167.3	188.0

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

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

68 Summary of world statistics for raw cotton ^a

	Opening stocks kt	Production kt	Total supply kt	Consumption kt	Imports ^b kt	Price ^c US\$/lb
1960-61	4 259	9 812	17 841	10 000	3 770	na
1961-62	4 110	9 703	17 294	9 713	3 481	na
1962-63	4 176	10 231	17 993	9 511	3 586	na
1963-64	5 015	11 064	19 952	10 364	3 873	na
1964-65	5 671	11 702	21 155	11 153	3 782	na
1965-66	6 314	12 399	22 443	11 663	3 730	na
1966-67	7 087	11 378	22 386	12 205	3 921	28.4
1967-68	6 196	11 226	21 203	12 233	3 781	31.3
1968-69	5 134	12 387	21 208	12 280	3 687	28.8
1969-70	5 220	11 828	20 901	12 165	3 853	28.0
1970-71	4 875	12 100	22 334	12 442	5 359	31.1
1971-72	4 756	12 879	23 006	12 711	5 371	37.2
1972-73	4 888	13 470	24 319	12 931	5 961	42.0
1973-74	5 331	13 603	24 757	13 136	5 823	76.5
1974-75	5 913	13 895	24 995	12 444	5 187	52.5
1975-76	7 262	11 752	24 737	13 444	5 723	65.3
1976-77	5 639	12 307	23 374	13 145	5 428	81.9
1977-78	4 873	13 914	24 692	13 353	5 905	65.1
1978-79	5 582	12 954	24 443	13 750	5 907	76.1
1979-80	4 759	14 249	25 650	14 351	6 642	85.4
1980-81	4 623	13 800	24 357	14 150	5 934	94.2
1981-82	4 488	14 988	25 071	13 836	5 595	73.8
1982-83	5 626	14 442	25 744	14 647	5 676	76.7
1983-84	5 542	14 430	25 863	15 061	5 891	87.7
1984-85	5 287	19 314	30 617	15 522	6 016	69.2
1985-86	9 172	17 451	32 933	16 456	6 310	49.0
1986-87	10 364	15 319	32 888	17 913	7 205	62.1
1987-88	7 714	17 733	32 094	18 437	6 647	72.3
1988-89	7 102	18 337	32 751	18 698	7 312	66.4
1989-90	6 763	17 356	31 241	18 972	7 122	82.4
1990-91	5 440	18 973	31 068	18 656	6 655	82.9
1991-92	5 976	20 748	33 039	18 843	6 315	63.1
1992-93	8 045	17 920	31 849	18 804	5 884	57.7
1993-94	7 499	16 906	30 480	18 648	6 075	70.6
1994-95	6 027	18 777	31 390	18 317	6 586	91.1
1995-96	6 942	20 402	33 213	18 579	5 869	85.5
1996-97	8 678	19 601	34 493	19 011	6 214	78.6
1997-98	9 639	20 082	35 359	18 923	5 638	72.2
1998-99	10 618	18 616	34 577	18 281	5 344	60.2
1999-00	11 175	19 099	36 383	19 759	6 109	52.5
2000-01	10 703	19 345	35 773	19 840	5 725	57.2
2001-02	10 186	21 501	38 121	20 456	6 434	41.8
2002-03	11 350	19 215	37 140	21 319	6 576	55.4
2003-04	9 220	20 698	37 323	21 262	7 406	68.3
2004-05	8 843	26 221	42 252	23 541	7 189	52.2

^a August–July crop year. ^b Includes trade among the twelve republics of the former Soviet Union and Estonia, Latvia and Lithuania. ^c Cotlook 'A' index quotes (cif Northern Europe) for strict middling (SM) 1 1/16" cotton from 1972-73 to July 1981, and for SM 1 3/32" cotton from August 1981. **na** Not available.

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

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

	Area harvested '000 ha	Lint yield kg/ha	Production					World kt
			Brazil kt	India kt	Pakistan kt	United States kt	China kt	
1960-61	32 120	305	425	na	na	3 100	1 067	9 812
1961-62	32 419	299	550	895	328	3 110	806	9 703
1962-63	31 761	322	501	1 086	368	3 228	740	10 231
1963-64	32 852	337	501	1 103	422	3 330	1 197	11 064
1964-65	33 525	349	457	1 031	380	3 297	1 655	11 702
1965-66	33 287	372	544	961	417	3 255	2 090	12 399
1966-67	31 167	365	427	960	466	2 080	2 330	11 378
1967-68	30 923	363	575	1 129	520	1 621	2 351	11 226
1968-69	31 912	388	718	1 035	529	2 379	2 351	12 387
1969-70	32 461	364	580	1 044	538	2 175	2 079	11 828
1970-71	31 803	380	595	963	544	2 219	2 286	12 100
1971-72	33 023	390	680	1 260	707	2 281	2 112	12 879
1972-73	33 540	402	651	1 125	675	2 984	1 960	13 470
1973-74	32 846	414	535	1 079	633	2 825	2 547	13 603
1974-75	33 508	415	533	1 199	610	2 513	2 460	13 895
1975-76	29 874	393	400	1 130	494	1 808	2 373	11 752
1976-77	30 535	403	590	1 012	418	2 304	2 068	12 307
1977-78	33 576	414	489	1 229	553	3 133	2 047	13 914
1978-79	32 904	394	544	1 348	464	2 364	2 166	12 954
1979-80	32 219	442	572	1 363	744	3 185	2 199	14 249
1980-81	32 368	426	594	1 322	714	2 422	2 700	13 800
1981-82	32 933	455	680	1 428	748	3 407	2 961	14 988
1982-83	31 394	460	586	1 471	823	2 605	3 592	14 442
1983-84	30 920	467	674	1 333	494	1 692	4 638	14 430
1984-85	33 734	573	968	1 820	1 008	2 827	6 249	19 314
1985-86	31 584	553	793	1 964	1 216	2 925	4 137	17 451
1986-87	29 353	522	633	1 579	1 320	2 119	3 549	15 319
1987-88	30 871	574	864	1 555	1 468	3 214	4 246	17 733
1988-89	33 767	543	709	1 788	1 426	3 355	4 159	18 337
1989-90	31 689	548	666	2 295	1 456	2 655	3 788	17 356
1990-91	33 160	572	717	1 989	1 638	3 376	4 507	18 973
1991-92	34 786	596	667	2 023	2 177	3 835	5 683	20 748
1992-93	32 642	549	420	2 346	1 540	3 531	4 507	17 920
1993-94	30 710	551	483	2 134	1 368	3 513	3 745	16 906
1994-95	32 214	583	537	2 427	1 361	4 281	4 333	18 777
1995-96	35 967	567	410	2 885	1 785	3 897	4 768	20 402
1996-97	33 719	581	306	3 030	1 594	4 124	4 202	19 601
1997-98	33 778	595	412	2 686	1 562	4 092	4 594	20 082
1998-99	32 893	566	521	2 805	1 372	3 030	4 507	18 616
1999-00	32 242	592	700	2 652	1 872	3 694	3 832	19 099
2000-01	32 021	604	939	2 380	1 785	3 742	4 420	19 345
2001-02	33 730	637	766	2 678	1 807	4 421	5 313	21 501
2002-03	30 449	631	847	2 308	1 698	3 747	4 921	19 215
2003-04	32 369	639	1 310	3 005	1 687	3 975	4 855	20 698
2004-05	35 876	731	1 285	4 137	2 460	5 062	6 314	26 221

^a August–July crop year. **na** Not applicable.

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

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

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

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

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

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

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

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

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

72 Summary of Australian statistics for dairy products

	Dairy cow numbers ^a '000	Milk yield	Production			Export price ^c	
		per cow	Milk ^b	Butter	Cheese	Butter	Cheese
		L	ML	kt	kt	\$/t	\$/t
1960-61	3 162	1 926	6 089	182	48	638	503
1961-62	3 230	2 032	6 563	201	57	598	458
1962-63	3 263	2 045	6 673	204	60	604	462
1963-64	3 296	2 064	6 803	206	59	618	477
1964-65	3 214	2 151	6 914	206	63	688	514
1965-66	3 094	2 236	6 919	209	60	669	534
1966-67	3 061	2 383	7 295	222	70	607	591
1967-68	2 963	2 298	6 808	196	71	584	519
1968-69	2 866	2 430	6 965	198	75	523	545
1969-70	2 829	2 659	7 523	223	76	512	480
1970-71	2 745	2 641	7 249	203	78	516	504
1971-72	2 693	2 629	7 079	196	81	793	673
1972-73	2 647	2 626	6 952	185	93	784	733
1973-74	2 492	2 711	6 756	175	96	695	761
1974-75	2 477	2 623	6 497	161	99	955	1 012
1975-76	2 467	2 533	6 248	148	113	836	1 117
1976-77	2 279	2 533	5 772	118	104	1 124	1 070
1977-78	2 056	2 734	5 621	112	116	1 280	1 259
1978-79	1 921	2 951	5 669	105	142	1 249	1 337
1979-80	1 869	2 906	5 432	84	151	1 595	1 545
1980-81	1 819	2 871	5 223	79	135	1 875	1 926
1981-82	1 810	2 905	5 258	76	153	2 714	2 158
1982-83	1 792	3 078	5 516	88	158	2 412	2 444
1983-84	1 809	3 269	5 913	111	161	1 871	2 611
1984-85	1 809	3 335	6 033	114	160	1 617	2 433
1985-86	1 770	3 411	6 038	105	170	1 592	2 515
1986-87	1 757	3 598	6 173	104	177	1 758	2 645
1987-88	1 714	3 657	6 130	98	176	1 634	2 735
1988-89	1 709	3 781	6 290	101	191	1 970	2 990
1989-90	1 698	3 790	6 263	111	175	2 421	3 461
1990-91	1 682	3 911	6 403	108	179	1 968	3 203
1991-92	1 699	4 074	6 732	114	198	2 177	3 316
1992-93	1 716	4 318	7 327	131	210	2 241	3 693
1993-94	1 786	4 523	8 077	152	234	2 197	3 750
1994-95	1 821	4 506	8 206	141	241	2 076	3 449
1995-96	1 884	4 626	8 716	153	272	2 993	3 881
1996-97	1 977	4 571	9 036	158	290	2 001	3 702
1997-98	2 060	4 582	9 439	164	310	2 264	3 955
1998-99	2 155	4 723	10 178	187	327	2 510	3 967
1999-00	2 171	4 996	10 847	183	373	2 123	3 670
2000-01	2 176	4 846	10 545	172	376	2 419	4 342
2001-02	2 123	5 309	11 271	178	431	2 417	4 738
2002-03	2 050	5 037	10 326	149	368	2 014	3 844
2003-04	2 038	4 948	10 075	132	381	2 187	3 483
2004-05	2 005	4 961	10 125	131	373	2 713	3 850

^a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of \$5 000 or more. From 1999-2000, at 30 June. House cows and heifers are included before 1977-78, but excluded thereafter. Before 1986-87, includes livestock holdings on establishments with an EVAO of \$2 500 or more. ^b Before 1980-81, milk production included an estimate of on-farm use. ^c Fob.

Sources: ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; ABS, *Principal Agricultural Commodities, Preliminary*, cat. no. 7111.0, Canberra; Australian Dairy Corporation, *Monthly Statistics*, Melbourne; ABARE.

73 Value of Australian exports of dairy products, by destination

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

a Includes ghee, dry butterfat, butter concentrate and butter oil, all expressed as butter.
 Source: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra.

74 Volume of Australian exports of dairy products, by destination

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

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

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

75 Australian dairy cow numbers, by state ^a

	New South Wales '000	Victoria '000	Queensland '000	Western Australia '000	South Australia '000	Tasmania '000	Australia ^b '000
1965	719	1 187	689	113	159	143	3 214
1966	675	1 192	627	109	155	148	3 094
1967	668	1 211	599	103	149	149	3 061
1968	645	1 200	556	100	139	152	2 963
1969	604	1 209	497	97	139	153	2 866
1970	568	1 245	460	101	138	155	2 829
1971	527	1 244	441	96	138	153	2 745
1972	491	1 257	420	97	145	155	2 693
1973	465	1 274	390	98	141	155	2 647
1974	418	1 244	341	95	132	140	2 492
1975	387	1 269	329	91	135	144	2 477
1976	384	1 258	330	93	135	143	2 467
1977	373	1 167	312	84	120	128	2 279
1978	341	1 125	287	74	112	118	2 056
1979	320	1 047	265	72	105	110	1 921
1980	308	1 037	247	72	102	103	1 869
1981	289	1 024	236	71	100	99	1 819
1982	283	1 024	235	70	99	100	1 810
1983	293	998	234	69	98	98	1 792
1984	285	1 021	234	69	101	99	1 809
1985	274	1 036	229	69	102	98	1 809
1986	264	1 016	224	68	102	96	1 770
1987	270	997	223	67	102	96	1 757
1988	260	977	218	65	100	94	1 714
1989	258	990	210	64	94	92	1 709
1990	245	995	208	65	90	93	1 698
1991	230	1 000	199	66	89	97	1 682
1992	222	1 026	188	68	90	103	1 699
1993	222	1 033	189	70	93	107	1 716
1994	232	1 085	189	74	94	113	1 786
1995	230	1 113	189	73	97	119	1 821
1996	235	1 161	189	71	97	130	1 884
1997	245	1 229	194	71	101	137	1 977
1998	266	1 268	203	73	107	143	2 060
1999	282	1 340	196	65	117	154	2 155
2000	289	1 377	194	65	105	139	2 171
2001	270	1 360	187	72	132	155	2 176
2002	264	1 363	174	75	110	134	2 123
2003	250	1 303	159	77	117	142	2 050
2004	236	1 322	169	74	106	127	2 038
2005	250	1 319	145	95	67	130	2 005

^a Cows in milk and dry at 31 March on establishments with an estimated value of agricultural operations (EVAO) of \$5 000 or more. From 2000, at 30 June. House cows and heifers are included before 1977-78, but excluded thereafter. Before 1986-87, includes livestock holdings on establishments with an EVAO of \$2 500 or more. ^b Includes data for the Australian Capital Territory and the Northern Territory.

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

76 Australian production of wholemilk, by state ^a

	New South Wales ML	Victoria ML	Queensland ML	Western Australia ML	South Australia ML	Tasmania ML	Australia ^b ML
1960-61	1 452	2 713	967	266	396	290	6 089
1961-62	1 567	2 869	1 097	265	434	333	6 563
1962-63	1 473	3 035	1 114	255	434	357	6 673
1963-64	1 466	3 159	1 090	260	443	378	6 803
1964-65	1 327	3 391	1 047	281	465	397	6 914
1965-66	1 367	3 414	1 005	281	447	400	6 919
1966-67	1 468	3 622	1 083	253	449	416	7 295
1967-68	1 410	3 338	987	252	404	413	6 808
1968-69	1 268	3 715	781	265	467	464	6 965
1969-70	1 413	4 028	870	254	483	469	7 523
1970-71	1 237	4 062	770	256	470	450	7 249
1971-72	1 171	3 973	768	255	458	451	7 079
1972-73	1 177	3 945	737	242	424	424	6 952
1973-74	1 069	3 917	665	241	439	422	6 756
1974-75	958	3 745	658	246	426	461	6 497
1975-76	980	3 518	683	233	398	436	6 248
1976-77	943	3 212	624	215	355	423	5 772
1977-78	891	3 263	559	209	339	360	5 621
1978-79	906	3 283	570	213	332	365	5 669
1979-80	907	3 151	508	222	329	315	5 432
1980-81	840	3 065	495	214	319	289	5 223
1981-82	875	3 028	546	209	306	294	5 258
1982-83	905	3 164	564	221	340	322	5 516
1983-84	940	3 400	619	232	382	340	5 913
1984-85	940	3 516	616	243	372	346	6 033
1985-86	904	3 575	600	243	365	351	6 038
1986-87	906	3 692	601	248	374	352	6 173
1987-88	932	3 649	617	249	377	306	6 130
1988-89	923	3 792	626	245	370	334	6 290
1989-90	879	3 787	629	267	356	343	6 263
1990-91	857	3 907	626	283	366	363	6 403
1991-92	894	4 119	635	302	411	372	6 732
1992-93	997	4 456	702	326	434	413	7 327
1993-94	1 098	4 968	764	344	456	447	8 077
1994-95	1 087	5 114	740	343	485	437	8 206
1995-96	1 115	5 482	751	342	512	514	8 716
1996-97	1 192	5 634	797	349	535	529	9 036
1997-98	1 242	5 866	822	387	580	543	9 439
1998-99	1 285	6 414	827	403	646	603	10 178
1999-00	1 395	6 870	848	412	714	609	10 847
2000-01	1 326	6 777	760	393	699	590	10 545
2001-02	1 343	7 405	744	393	715	672	11 271
2002-03	1 301	6 584	719	399	733	585	10 326
2003-04	1 271	6 434	674	403	703	590	10 075
2004-05	1 218	6 613	619	396	679	600	10 125

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

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

77 Australian manufacture of dairy products

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

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

Sources: Australian Dairy Corporation, *Monthly Statistics*, Melbourne; ABARE.

78 Australian consumption of dairy products

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

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

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

79 Australian milk prices and gross value of production

	Producer price ^a			Gross value of production		
	Manufacturing milk c/L	Market milk c/L	Weighted average c/L	Manufacturing milk \$m	Market milk \$m	Total \$m
1960-61	na	na	5.3	196	128	324
1961-62	na	na	5.1	205	132	337
1962-63	na	na	5.2	218	132	350
1963-64	na	na	5.4	228	139	367
1964-65	na	na	5.6	239	145	384
1965-66	4.3	9.3	5.5	232	150	381
1966-67	4.4	9.3	5.5	251	149	400
1967-68	4.2	9.4	5.4	215	154	370
1968-69	4.3	9.3	5.5	228	155	383
1969-70	4.3	9.6	5.5	253	161	414
1970-71	4.6	10.0	5.9	255	170	426
1971-72	5.2	10.6	6.5	285	173	458
1972-73	5.3	11.0	6.7	280	184	464
1973-74	5.3	11.8	7.0	271	196	468
1974-75	6.0	14.2	8.0	301	218	519
1975-76	5.5	16.1	8.1	252	238	490
1976-77	5.7	18.7	9.2	246	275	521
1977-78	7.3	17.2	9.9	259	295	553
1978-79	8.5	18.5	11.0	296	332	628
1979-80	9.7	20.0	12.5	309	367	676
1980-81	13.0	23.1	16.0	483	402	885
1981-82	15.4	26.2	18.6	561	473	1 034
1982-83	16.7	28.7	20.1	665	522	1 187
1983-84	15.7	29.8	19.4	656	497	1 153
1984-85	13.5	31.2	18.2	510	526	1 035
1985-86	14.7	32.8	19.6	580	527	1 107
1986-87	17.5	34.5	22.1	687	570	1 257
1987-88	19.3	36.2	23.9	805	586	1 391
1988-89	22.7	37.9	26.8	981	654	1 635
1989-90	18.3	39.7	28.6	1 059	691	1 749
1990-91	18.9 ^b	40.9	23.5	1 099	726	1 825
1991-92	19.7	43.2	24.5	1 188	772	1 960
1992-93	24.4	43.5	29.0	1 522	793	2 314
1993-94	23.0	46.2	28.2	1 620	829	2 448
1994-95	22.2	47.8	27.9	1 511	908	2 419
1995-96	26.0	49.9	31.1	1 898	951	2 848
1996-97	24.0	51.1	29.6	1 830	979	2 809
1997-98	23.9	52.0	29.4	1 839	979	2 817
1998-99	22.5	51.5	28.5	1 905	995	2 900
1999-00	22.0	52.3	26.2	1 961	1 011	2 972
2000-01	na ^c	na ^c	29.0	2 496	558	3 053
2001-02	na ^c	na ^c	33.0	3 093	625	3 717
2002-03	na ^c	na ^c	27.1	2 274	521	2 795
2003-04	na ^c	na ^c	27.9	2 253	555	2 809
2004-05	na ^c	na ^c	31.0	2 512	627	3 139

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

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

80 Average retail prices of selected dairy products, by quarter

	Milk ^a		Cheese ^b		Butter ^c	
	Sydney c/L	Melbourne c/L	Sydney c/kg	Melbourne c/kg	Sydney c/kg	Melbourne c/kg
1997						
March	115	130	792	718	364	408
June	115	130	772	714	376	398
September	116	130	756	720	370	412
December	116	133	722	710	348	412
1998						
March	116	135	760	714	366	410
June	116	135	742	674	374	408
September	116	135	722	724	374	422
December	116	135	778	716	362	410
1999						
March	122	139	786	720	380	412
June	122	140	762	730	372	418
September	122	140	776	702	384	422
December	129	142	762	710	380	432
2000						
March	131	146	764	742	372	432
June	135	150	768	698	374	428
September	133	147	686	656	378	426
December	133	146	704	740	386	452
2001						
March	135	145	734	698	390	446
June	135	145	726	706	434	466
September	138	146	732	752	456	430
December	144	152	848	836	468	440
2002						
March	145	154	820	780	458	436
June	147	153	740	738	480	472
September	147	153	752	758	466	478
December	154	156	762	770	472	456
2003						
March	155	156	770	782	484	476
June	157	156	742	726	464	468
September	155	157	708	698	500	484
December	156	157	724	746	492	480
2004						
March	156	158	818	798	520	504
June	157	159	796	792	504	504
September	256	268	850	788	532	528
December	273	298	822	810	536	548
2005						
March	282	303	816	820	568	604
June	286	310	806	856	588	624

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

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

81 Average export unit values of Australian dairy products ^a

	Butter ^b \$/t	Cheese \$/t	Skim milk powder \$/t	Wholemilk powder \$/t	Casein \$/t
1960-61	638.07	502.73	na	na	356.32
1961-62	598.03	458.15	na	na	333.33
1962-63	604.17	462.12	na	na	318.84
1963-64	618.22	477.03	na	na	317.65
1964-65	687.76	514.49	na	na	367.47
1965-66	668.60	533.60	na	na	517.77
1966-67	606.74	590.73	281.19	585.94	420.35
1967-68	583.85	518.84	240.51	619.47	488.10
1968-69	523.26	545.10	152.50	544.12	409.09
1969-70	511.70	480.39	156.60	496.73	399.34
1970-71	515.57	504.11	184.74	500.00	431.23
1971-72	792.54	672.67	331.74	630.87	557.05
1972-73	783.82	733.11	389.58	738.46	726.67
1973-74	694.86	760.53	416.58	766.82	741.46
1974-75	954.80	1 011.70	649.25	1 007.35	1 032.79
1975-76	835.74	1 117.46	464.70	1 041.67	1 012.99
1976-77	1 123.89	1 070.48	323.37	866.67	832.43
1977-78	1 279.88	1 258.50	389.36	1 037.92	1 022.22
1978-79	1 249.44	1 336.58	540.98	1 104.07	1 366.41
1979-80	1 595.04	1 545.01	577.24	1 100.29	1 842.86
1980-81	1 875.00	1 925.93	1 000.00	1 613.64	2 476.19
1981-82	2 714.29	2 157.89	896.55	1 906.98	2 391.30
1982-83	2 411.76	2 444.44	918.92	2 057.14	2 941.18
1983-84	1 870.97	2 611.11	885.25	2 071.43	2 500.00
1984-85	1 617.02	2 432.84	849.46	1 900.00	2 285.71
1985-86	1 591.84	2 515.15	987.34	1 937.50	2 800.00
1986-87	1 757.58	2 645.16	1 126.58	2 047.62	3 285.71
1987-88	1 634.15	2 735.29	1 382.35	2 243.24	3 875.00
1988-89	1 970.32	2 990.35	2 245.10	2 650.20	6 277.43
1989-90	2 420.90	3 460.80	2 340.85	2 852.70	5 648.35
1990-91	1 967.87	3 203.04	1 783.98	2 193.05	3 889.50
1991-92	2 177.05	3 316.42	1 953.08	2 431.63	4 663.18
1992-93	2 240.51	3 693.29	2 553.84	2 918.19	6 670.29
1993-94	2 196.56	3 750.07	2 232.74	2 603.09	16 322.78
1994-95	2 076.10	3 448.84	2 292.65	2 471.42	7 045.15
1995-96	2 992.85	3 880.56	2 845.11	3 141.29	8 956.43
1996-97	2 000.87	3 702.17	2 462.28	2 778.68	5 801.21
1997-98	2 263.69	3 954.53	2 495.26	2 882.43	4 828.54
1998-99	2 510.24	3 967.28	2 253.39	2 883.26	5 177.65
1999-00	2 123.48	3 670.02	2 191.42	2 629.23	5 941.28
2000-01	2 418.54	4 342.15	3 425.69	3 464.29	8 950.45
2001-02	2 417.05	4 738.11	3 320.31	3 454.24	9 031.70
2002-03	2 013.80	3 844.32	2 242.50	2 681.01	5 663.39
2003-04	2 186.88	3 483.33	2 490.09	2 749.48	6 172.94
2004-05	2 712.84	3 849.87	2 984.89	3 094.28	8 046.72

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

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

82 Volume of Australian imports of cheese, by variety

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

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

83 Summary of world statistics for dairy products

	Production			Consumption		Exports ^a	
	Milk Mt	Butter kt	Cheese kt	Butter kt	Cheese kt	Butter kt	Cheese kt
1967	na	5 125	na	4 959	na	659	na
1968	336	5 281	5 128	5 007	5 074	730	701
1969	335	5 060	5 291	4 919	5 306	718	689
1970	336	5 047	5 744	5 000	5 751	924	747
1971	338	5 035	6 117	4 959	6 031	814	796
1972	346	5 377	6 553	5 012	6 379	690	805
1973	353	5 548	6 779	5 529	6 719	1 086	907
1974	360	5 214	7 147	5 409	6 941	977	973
1975	361	5 513	7 210	5 457	7 088	886	962
1976	367	5 600	2 298	5 513	7 512	981	1 099
1977	372	5 944	7 822	5 669	7 855	1 003	1 161
1978	377	5 997	8 172	5 627	8 113	1 038	1 271
1979	381	6 011	8 519	5 755	8 363	1 287	1 410
1980	386	6 174	8 193	5 882	7 728	1 328	1 450
1981	386	6 070	8 423	5 806	7 944	1 297	1 534
1982	398	6 361	8 805	5 687	8 425	1 312	1 484
1983	413	6 892	9 012	6 023	8 614	1 197	1 502
1984	413	6 834	9 167	6 157	8 860	1 337	1 701
1985	419	6 817	9 473	6 233	9 092	1 400	1 720
1986	426	7 102	9 764	6 376	9 479	1 310	1 733
1987	426	6 622	10 065	6 717	9 814	1 820	1 774
1988	429	6 567	10 490	6 785	10 149	1 888	1 855
1989	435	6 719	10 748	6 327	10 418	1 427	1 832
1990	442	6 824	10 915	6 262	10 581	1 104	1 997
1991	429	5 667	10 939	5 252	10 617	706	2 039
1992 ^b	380	5 470	10 931	5 245	10 569	694	2 051
1993	378	5 493	10 895	5 169	10 550	718	864
1994	378	5 221	11 194	5 109	10 897	688	917
1995	381	5 173	11 345	4 954	11 028	675	969
1996	364	5 134	11 059	4 833	10 565	641	941
1997	366	5 073	11 388	4 863	11 121	745	1 010
1998	374	5 216	11 378	4 910	11 190	625	907
1999	378	5 361	11 750	4 988	11 623	591	892
2000	382	5 762	12 437	5 355	12 096	712	1 068
2001	386	6 098	12 540	5 724	12 338	743	1 086
2002	394	6 504	12 953	6 018	12 601	733	1 157
2003	398	6 554	12 938	6 161	12 707	852	1 180
2004	403	6 638	13 426	6 321	13 174	883	1 214

^a Includes intra-EU trade up to and including 1993. ^b For years up to and including 1991, includes data for 38 selected major countries; from 1992, includes data for 31 major countries. **na** Not available.

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

84 Milk production in selected regions and countries

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

a Regarded as fifteen countries to 1999, then twenty five countries from 2000. **b** Year ended 30 June. **c** Year ended 31 May. **d** Includes 31 major producing countries. **na** Not available.

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

85 Production of dairy products in selected regions and countries

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

a Year ended 30 June. **b** Includes butter anhydrous milk fat and ghee. **c** Factory production only. **d** Regarded as fifteen countries to 1999, then twenty five countries from 2000. **e** Year ended 31 March. **f** Year ended 31 May. **g** Includes imported unprocessed cheese which is blended with domestically produced cheese.

Sources: Australian Dairy Corporation, *Monthly Statistics*, Melbourne; Agriculture and Livestock Industries Corporation, *Monthly Statistics*, Tokyo; Ministry of Agriculture and Fisheries, *Situation and Outlook for New Zealand Agriculture*, Wellington; US Department of Agriculture, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC; ABARE.

86 Volume of exports of dairy products, by selected countries

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

a Year ended 30 June. b Includes butter, anhydrous milk fat and ghee. c Regarded as fifteen countries to 1999, then twenty five countries from 2000. Excludes intra-EU trade. d Skim milk and buttermilk powder. na Not available.

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Ministry of Agriculture and Fisheries, *Situation and Outlook for New Zealand Agriculture*, Wellington; US Department of Agriculture, *Dairy: World Markets and Trade, Foreign Agriculture Circular*, Washington DC; ABARE.

87 Volume of imports of dairy products, by selected countries

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

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

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

88 Stocks of dairy products in principal producing countries

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

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

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

89 Major components of Australian farm costs

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

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

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

90 Indexes of prices paid by farmers in Australia

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

Continued

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

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

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

Source: ABARE.

91 Indicative interest rates for the Australian farm sector

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

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

Sources: Reserve Bank of Australia; ABARE.

92 Rural indebtedness to financial institutions

	All banks ^a	Other government agencies ^b	Pastoral and other finance companies	Other farm debt ^c	Total rural debt
	\$m	\$m	\$m	\$m	\$m
1980-81	3 161	801	325	na	na
1981-82	3 418	842	384	na	na
1982-83	3 980	1 049	385	na	na
1983-84	4 284	1 139	495	na	na
1984-85	5 254	1 230	601	na	na
1985-86	5 976	1 220	739	na	na
1986-87	5 705	1 515	1 345	na	na
1987-88	6 023	1 664	1 195	1 250	10 133
1988-89	7 430	1 803	1 503	1 350	12 085
1989-90	8 514	1 910	1 523	1 410	13 356
1990-91	8 666	1 877	1 205	1 436	13 184
1991-92	9 158	1 856	1 379	1 460	13 853
1992-93	10 049	1 879	1 041	1 580	14 549
1993-94	13 722	1 909	1 150	1 631	18 412
1994-95	14 485	1 872	1 368	1 690	19 415
1995-96	16 351	735	1 720	1 792	20 597
1996-97	17 466	698	2 065	1 760	21 988
1997-98	18 566	609	1 979	1 810	22 964
1998-99	20 085	661	1 093	1 852	23 691
1999-00	23 240	663	2 527	1 901	28 331
2000-01	25 174	701	2 639	1 920	30 434
2001-02	26 829	711	2 691	1 967	32 198
2002-03	28 957	739	1 628	2 017	33 341
2003-04	34 115	763	3 379	2 067	40 324
2004-05	39 481	837	3 112	na	na

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

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

93 Australian tractor sales, by type

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

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

Source: Tractor and Machinery Association of Australia, Melbourne.

94 Value of Australian trade in selected farm machinery

	Imports ^a				Exports			
	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery	Tractors	Tillage machinery	Harvesting/ haymaking machinery	Seeding machinery
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
1971-72	22 081	541	1 859	196	513	2 120	4 696	256
1972-73	36 711	466	4 346	289	662	2 550	8 260	1 030
1973-74	41 606	1 008	9 495	572	411	3 016	9 453	1 111
1974-75	84 148	2 787	21 815	674	790	6 975	15 628	2 247
1975-76	116 290	3 215	21 164	665	2 440	5 889	12 080	626
1976-77	149 663	8 275	38 867	1 177	946	3 314	16 954	747
1977-78	110 697	8 338	46 932	1 744	1 165	4 775	8 888	2 293
1978-79	111 518	7 991	37 021	1 759	2 064	2 178	10 431	873
1979-80	169 008	10 472	62 964	2 316	3 742	2 578	12 268	1 481
1980-81	198 398	11 206	83 650	3 847	8 053	3 733	24 308	9 009
1981-82	260 771	14 252	89 061	3 362	6 638	6 224	12 897	4 002
1982-83	149 386	8 558	52 568	2 529	7 852	2 157	11 357	2 036
1983-84	174 936	10 585	109 281	3 516	4 804	1 935	4 764	2 236
1984-85	241 827	16 372	119 629	4 074	2 201	1 215	6 635	2 578
1985-86	198 476	9 822	68 493	3 555	7 352	1 268	13 745	5 945
1986-87	58 178	4 333	22 588	1 969	5 255	767	8 660	1 333
1987-88	124 132	7 528	39 628	4 189	2 892	1 214	18 183	609
1988-89	231 995	13 269	76 583	5 567	1 096	1 614	8 036	406
1989-90	268 895	22 090	96 195	5 913	1 301	1 107	12 059	886
1990-91	101 532	11 881	64 362	4 045	1 711	2 347	6 832	296
1991-92	91 061	8 631	43 394	4 002	890	2 446	11 295	841
1992-93	178 920	13 291	72 578	5 011	1 306	1 946	17 896	1 069
1993-94	245 154	15 220	118 227	6 835	1 112	2 704	31 541	782
1994-95	312 964	17 534	142 110	10 342	1 551	1 664	32 451	1 517
1995-96	366 038	25 448	170 307	14 505	1 524	2 896	43 088	1 504
1996-97	454 201	29 511	253 428	22 501	1 192	2 498	32 400	1 906
1997-98	512 157	30 278	243 655	30 525	995	1 391	33 946	1 269
1998-99	515 845	30 345	241 217	24 967	1 261	2 439	31 099	1 074
1999-00	416 136	30 127	229 839	24 214	1 223	2 666	29 748	402
2000-01	376 921	20 521	228 927	19 085	2 591	4 712	22 866	1 206
2001-02	477 563	25 789	161 079	29 197	4 416	2 211	44 996	1 144
2002-03	504 775	24 851	225 770	31 722	2 507	990	26 890	2 358
2003-04	596 319	31 176	249 504	33 546	1 512	773	21 512	1 393
2004-05	664 085	31 042	278 636	39 942	10 438	1 010	5 451	1 211

^a Fob at the port of origin.

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

95 Australian fertiliser prices, by type ^a

	Single superphosphate ^b	Diammonium phosphate ^b	Ammonium sulphate ^c	Potassium chloride ^c	Urea ^c	Index of prices paid for fertiliser ^d
	\$/t	\$/t	\$/t	\$/t	\$/t	
1970	na	na	na	na	na	9.4
1971	16.18	na	40.41	69.10	79.24	11.6
1972	16.87	na	40.09	69.32	80.62	11.6
1973	16.99	na	40.79	68.80	81.44	11.6
1974	19.20	113.00	61.00	83.80	87.20	13.7
1975	54.60	na	103.00	103.40	120.60	30.8
1976	55.60	215.40	105.00	128.60	140.60	27.3
1977	53.16	135.00	91.80	109.45	153.95	28.0
1978	59.04	na	104.32	111.89	175.21	29.4
1979	56.76	247.80	112.06	117.54	185.16	32.1
1980	70.74	296.60	128.71	145.14	245.64	39.0
1981	83.40	337.60	149.14	176.42	274.23	46.5
1982	92.84	337.60	156.53	187.02	269.18	51.3
1983	101.42	334.00	155.64	180.50	261.11	52.6
1984	105.11	322.95	175.92	206.60	286.30	56.0
1985	118.46	342.17	218.19	267.29	321.50	62.2
1986	131.00	378.00	209.00	271.00	280.00	68.3
1987	128.00	339.00	211.00	279.00	276.00	67.0
1988	132.70	379.00	212.20	294.15	303.00	68.3
1989	155.40	396.00	229.40	328.70	339.70	76.9
1990	165.80	364.70	259.50	341.00	324.00	82.4
1991	177.10	389.00	276.00	361.80	390.00	85.0
1992	180.00	385.20	289.60	368.70	380.70	90.3
1993	173.00	368.80	293.10	367.50	389.70	88.7
1994	174.50	343.80	298.40	373.50	382.90	87.1
1995	179.10	417.30	319.20	372.30	455.90	89.6
1996	184.20	449.30	325.90	369.20	479.60	98.2
1997	179.17	460.25	317.88	362.75	434.80	99.2
1998	196.50	497.83	343.00	409.17	380.60	100.0
1999	197.00	487.83	339.25	437.50	333.80	102.7
2000	197.80	441.50	361.00	474.75	371.60	99.8
2001	209.83	475.25	377.25	511.25	443.60	106.4
2002	220.00	462.00	404.00	402.00	378.33	104.3
2003	240.00	454.33	399.00	412.50	363.33	104.5
2004	227.33	466.67	395.00	387.00	377.33	103.6
2005	226.67	477.33	393.00	434.00	445.00	106.2

^a Average price paid by Australian farmers at 30 June. ^b Bulk. ^c Bagged. ^d Based on a 4 quarter average for the year ending 30 June. **na** Not available.

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

96 World fertiliser indicator prices

	Phosphate rock a	Sulphur b	Diam- monium phosphate c	Triple super- phosphate c	Ammonia d	Urea d	Potash e
	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t
1991-92	56.0	83.0	211.0	159.0	148.0	190.0	144.0
1992-93	61.0	57.0	185.0	172.0	135.0	191.0	161.0
1993-94	55.0	47.0	223.0	195.0	219.0	192.0	164.0
1994-95	49.7	75.2	270.0	216.3	335.0	258.6	152.6
1995-96	49.9	63.2	300.7	229.5	262.6	273.4	149.0
1996-97	46.8	41.8	264.9	246.3	278.1	239.4	144.3
1997-98	53.9	44.8	302.2	279.7	233.0	190.3	166.2
1998-99	75.1	40.9	326.2	296.3	192.9	168.4	179.9
1999-00	74.8	64.1	268.4	242.8	226.6	190.1	178.9
2000-01	87.4	56.5	310.6	283.2	429.5	310.7	209.2
2001-02	89.8	46.5	298.8	262.4	286.2	216.5	214.9
2002-03	80.7	80.4	312.4	277.9	357.3	253.5	193.2
2003-04	66.5	101.8	305.4	260.0	397.0	268.9	159.1
2004-05	62.6	96.0	337.8	274.5	417.4	343.9	192.4
2000 quarter							
March	74.3	64.5	253.4	232.5	198.2	218.3	177.7
June	79.6	71.9	266.8	244.8	333.7	237.0	190.5
September	81.7	69.5	287.1	249.4	347.7	278.4	195.5
December	88.2	64.8	319.8	294.9	413.9	296.6	211.2
2001 quarter							
March	88.2	54.1	324.1	295.5	541.3	379.6	211.1
June	91.5	37.7	311.6	293.0	415.1	288.0	219.1
September	91.3	33.3	289.0	243.7	353.3	213.0	218.5
December	88.2	64.8	319.8	294.9	413.9	296.6	211.2
2002 quarter							
March	90.7	47.9	316.3	284.3	253.1	213.4	217.1
June	85.3	62.9	292.1	261.5	258.5	206.8	204.2
September	85.8	66.6	324.2	294.0	265.2	243.4	205.3
December	84.2	72.6	306.1	272.9	322.6	240.6	201.6
2003 quarter							
March	79.3	68.4	302.0	260.8	396.0	269.5	189.9
June	73.5	114.2	317.4	284.0	445.6	260.5	176.0
September	71.5	109.5	305.0	267.0	393.9	276.0	171.1
December	67.0	102.6	276.9	244.4	392.6	274.3	160.3
2004 quarter							
March	61.5	94.2	311.7	260.4	428.0	256.6	147.3
June	65.9	101.0	328.2	267.9	373.5	268.9	157.8
September	66.4	101.7	347.4	271.9	420.3	325.8	174.6
December	62.2	95.4	345.0	278.6	437.9	347.2	199.1
2005 quarter							
March	60.5	92.7	325.6	270.2	376.2	327.9	196.4
June	61.4	94.1	333.1	277.2	435.2	374.7	199.4
September	61.9	99.5	376.5	296.4	432.2	357.6	201.0

a US Gulf 68 BPL for the period to June 30 1998. Data after June 1998 refer to Jordan 70-74 BPL. **b** Vancouver spot. **c** Fob US Gulf. **d** Fob Middle East for the period to 30 June 1993 when data from this source became unavailable. Data after 30 June 1993 refer to fob US Gulf. **e** Vancouver standard muriate.

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

97 Australian fertiliser consumption, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1985-86	726.3	340.0	130.0
1986-87	871.8	332.5	135.7
1987-88	842.5	363.1	147.4
1988-89	790.5	392.6	160.8
1989-90	578.9	440.3	162.6
1990-91	580.0	439.4	145.4
1991-92	680.2	462.4	142.1
1992-93	801.4	488.0	145.2
1993-94	790.5	548.0	172.6
1994-95	950.0	564.5	201.2
1995-96	977.5	671.3	219.0
1996-97	1 016.0	824.6	196.5
1997-98	1 148.1	839.4	249.0
1998-99	1 058.7	940.7	223.0
1999-00	1 034.9	1 099.4	206.9
2000-01	1 096.6	1 002.0	202.6
2001-02	1 178.7	1 082.0	250.0
2002-03	1 064.1	986.4	259.5
2003-04	1 026.0	1 005.0	268.1
2004-05	1 185.0	1 105.6	297.9

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

98 Volume of Australian imports of fertiliser, by element

	Phosphate (P ₂ O ₅) kt	Nitrogen (N) kt	Potash (K ₂ O) kt
1985-86	150.4	121.3	116.7
1986-87	176.5	153.8	136.9
1987-88	146.3	154.2	165.5
1988-89	249.9	204.8	179.9
1989-90	305.0	257.2	173.0
1990-91	306.0	270.1	147.2
1991-92	331.6	257.2	145.4
1992-93	464.1	308.6	153.7
1993-94	447.3	392.2	179.1
1994-95	516.0	406.8	219.6
1995-96	604.1	469.3	218.6
1996-97	644.5	597.7	196.9
1997-98	713.7	654.7	258.9
1998-99	696.5	695.1	213.0
1999-00	667.7	842.2	206.9
2000-01	637.3	704.7	202.6
2001-02	588.7	749.4	250.0
2002-03	545.1	645.6	259.5
2003-04	546.1	682.3	268.1
2004-05	706.3	795.9	297.9

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

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

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

na Not available.

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

100 Volume of Australian trade in manufactured fertiliser, by type

	Imports					Exports		
	Triple superphosphate	Diammonium phosphate	Monammonium phosphate	Other ammonium	Urea	Potassic fertiliser	Nitrogen fertiliser	Ammonium phosphates
	kt	kt	kt	kt	kt	kt	kt	kt
1970-71	3.1	0.0	0.0	15.1	na	na	0.8	0.0
1971-72	2.4	0.0	0.0	27.3	na	na	7.8	0.0
1972-73	2.0	0.0	0.0	9.3	1.3	na	21.4	0.0
1973-74	1.8	0.0	0.0	4.1	0.1	na	37.9	0.0
1974-75	0.3	0.0	0.0	6.5	4.3	na	7.3	0.0
1975-76	0.1	0.0	0.0	0.3	4.7	na	47.9	0.0
1976-77	20.7	0.0	0.0	6.3	17.9	na	1.2	0.0
1977-78	10.1	0.0	0.0	9.4	10.2	na	7.2	0.0
1978-79	66.3	0.2	0.0	8.9	16.7	na	8.2	0.0
1979-80	0.0	2.2	0.0	30.7	41.2	na	24.2	0.0
1980-81	0.0	51.2	9.0	38.7	40.2	na	22.9	0.0
1981-82	0.0	50.5	8.9	62.7	43.2	na	18.5	0.0
1982-83	25.2	183.6	32.4	22.7	76.6	na	21.2	0.0
1983-84	35.1	257.5	45.9	14.7	64.0	na	4.5	0.0
1984-85	55.4	306.6	54.4	46.3	138.2	na	34.6	0.0
1985-86	48.1	229.4	40.2	41.7	144.2	na	6.2	0.0
1986-87	76.4	201.8	38.2	80.3	177.2	na	10.3	0.0
1987-88	88.4	124.7	15.3	98.9	212.0	na	16.1	0.1
1988-89	97.3	250.3	103.1	113.1	255.1	299.4	46.5	0.1
1989-90	114.3	320.3	164.2	78.6	361.7	289.7	48.3	0.1
1990-91	157.8	347.3	141.1	42.9	388.8	247.4	96.6	0.1
1991-92	264.4	355.0	206.2	90.2	364.5	244.4	60.8	0.8
1992-93	249.9	482.7	250.0	116.8	367.2	258.4	50.8	0.2
1993-94	204.2	501.2	237.5	133.7	526.5	301.0	76.6	0.4
1994-95	306.8	548.5	232.6	124.9	554.3	367.8	66.0	0.4
1995-96	269.3	715.4	291.5	154.0	594.9	366.0	40.0	0.3
1996-97	335.5	706.0	317.3	197.3	850.7	329.3	32.1	0.1
1997-98	351.8	757.1	391.6	118.1	953.3	435.0	43.2	0.2
1998-99	284.9	771.7	413.6	78.5	1 038.2	357.1	65.0	0.6
1999-00	240.4	570.2	580.0	74.9	1 399.8	353.3	75.2	23.0
2000-01	224.1	447.4	647.4	22.6	1 139.5	346.0	107.7	283.7
2001-02	280.2	271.0	659.2	75.5	1 295.8	416.9	101.3	180.2
2002-03	188.1	237.2	691.3	72.0	1 072.8	432.6	172.8	255.9
2003-04	163.5	211.6	740.5	58.2	1 156.6	447.0	134.8	264.6
2004-05	231.8	286.7	926.3	180.2	1 288.6	496.7	205.5	313.5

na Not available.

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

101 Volume of Australian fertiliser imports, by state

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
New South Wales								
1999-00	20.7	70.6	115.6	3.0	10.3	137.6	18.4	164.8
2000-01	28.3	32.1	110.1	2.3	4.4	117.3	16.2	174.3
2001-02	32.8	24.5	108.6	5.4	14.4	136.4	19.8	204.4
2002-03	21.5	14.1	138.5	5.1	18.8	116.1	14.0	127.7
2003-04	14.2	18.8	115.2	0.5	20.2	107.5	8.9	163.9
2004-05	15.9	26.9	129.1	0.4	36.5	108.2	20.2	99.9
Victoria								
1999-00	91.2	149.4	191.4	5.7	0.9	318.7	94.4	349.0
2000-01	79.3	116.4	233.8	2.5	0.0	365.9	95.3	359.5
2001-02	107.1	72.6	269.0	7.4	0.4	371.0	128.9	369.0
2002-03	56.8	45.0	229.4	11.8	1.0	325.6	105.9	309.2
2003-04	56.5	47.5	228.6	1.0	1.7	356.6	120.9	319.7
2004-05	65.2	93.5	331.4	1.5	1.2	365.6	103.2	397.9
Queensland								
1999-00	6.1	45.4	69.7	0.8	26.9	293.3	105.1	0.1
2000-01	10.3	39.2	66.1	0.4	3.1	226.5	83.8	0.4
2001-02	6.8	5.8	60.1	0.9	27.8	255.3	98.5	1.0
2002-03	5.2	0.1	38.3	1.4	16.0	159.3	75.5	1.1
2003-04	4.0	0.0	63.2	1.3	21.8	168.1	83.7	1.2
2004-05	13.8	0.0	66.8	1.3	94.3	273.8	98.8	2.2
Western Australia								
1999-00	75.9	118.5	156.5	0.2	25.2	514.0	101.5	107.5
2000-01	67.0	125.7	182.6	6.6	2.8	294.4	110.6	161.1
2001-02	82.2	113.6	178.3	0.2	13.6	364.0	128.0	176.2
2002-03	77.2	130.1	242.4	4.7	4.6	289.3	164.0	139.9
2003-04	75.3	74.4	288.2	1.1	7.0	351.7	175.5	158.4
2004-05	119.2	97.4	310.2	1.0	38.7	371.2	210.9	138.1
South Australia								
1999-00	26.0	173.5	46.9	0.0	1.8	125.6	5.2	0.0
2000-01	19.8	129.2	54.9	0.1	0.4	121.7	7.8	0.0
2001-02	23.0	54.5	43.2	4.6	0.7	153.0	9.4	0.0
2002-03	20.5	47.9	42.8	5.4	3.3	164.2	10.0	0.0
2003-04	7.3	70.9	45.4	0.6	3.1	150.8	11.2	0.0
2004-05	4.8	68.9	88.8	0.8	4.6	148.8	15.9	0.1
Tasmania								
1999-00	20.5	12.8	0.0	0.0	0.0	10.5	20.5	72.4
2000-01	19.4	4.9	0.0	0.0	0.0	13.6	24.0	60.8
2001-02	28.3	0.0	0.0	0.0	0.0	16.0	21.4	138.6
2002-03	6.9	0.0	0.0	0.0	0.0	18.4	22.4	102.7
2003-04	6.2	0.0	0.0	0.0	0.0	21.9	22.4	79.8
2004-05	13.0	0.0	0.0	0.0	0.0	21.0	24.8	158.4
Australia								
1999-00	240.4	570.2	580.0	9.8	65.1	1 399.8	353.3	755.6
2000-01	224.1	447.4	647.4	12.0	10.7	1 139.5	346.0	822.7
2001-02	280.2	271.0	659.2	18.4	57.1	1 295.8	416.9	933.2
2002-03	188.1	237.2	691.3	28.3	43.6	1 072.8	432.6	711.3
2003-04	163.5	211.6	740.5	4.3	53.8	1 156.6	447.0	723.1
2004-05	231.8	286.7	926.3	4.9	175.3	1 288.6	496.7	796.6

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

102 Value of Australian fertiliser imports, by state ^a

	Triple superphosphate \$m	Diammonium phosphate \$m	Monammonium phosphate \$m	Ammonium fertilisers		Urea \$m	Potassic fertiliser \$m	Phosphate rock \$m
				Sulphate \$m	Nitrate \$m			
New South Wales								
1999-00	3.99	16.86	27.44	0.54	2.09	23.22	4.22	12.19
2000-01	7.39	9.92	32.14	0.54	1.07	29.08	4.37	13.84
2001-02	7.81	6.82	30.63	1.21	4.33	27.43	6.04	17.81
2002-03	5.30	4.11	37.88	1.06	5.43	26.28	3.74	10.41
2003-04	3.36	5.45	30.47	0.81	4.79	24.29	2.15	10.00
2004-05	3.89	8.33	39.88	0.10	12.31	30.61	4.64	6.21
Victoria								
1999-00	18.68	36.72	47.07	1.03	0.21	53.60	22.00	25.06
2000-01	20.32	34.01	68.81	0.55	0.01	90.10	25.57	25.42
2001-02	22.65	21.10	77.33	1.65	0.11	76.06	36.13	25.62
2002-03	12.95	13.37	66.14	2.57	0.23	74.98	25.31	19.36
2003-04	8.19	13.89	64.43	0.18	0.34	79.22	25.93	16.68
2004-05	10.50	28.20	100.59	0.36	0.32	107.50	21.44	22.77
Queensland								
1999-00	1.32	11.63	17.45	0.17	6.06	48.36	23.90	0.02
2000-01	2.61	11.09	19.25	0.10	0.87	54.88	22.06	0.05
2001-02	1.60	1.64	17.42	0.18	8.56	49.97	28.41	0.12
2002-03	1.32	0.05	10.96	0.37	4.14	35.26	18.19	0.12
2003-04	0.89	0.02	17.23	0.21	5.18	36.97	18.12	0.19
2004-05	2.81	0.02	20.51	0.24	33.32	78.73	21.34	0.33
Western Australia								
1999-00	14.65	29.48	38.62	0.04	6.48	83.23	23.55	7.91
2000-01	15.52	41.57	58.22	1.39	0.64	75.14	27.90	12.95
2001-02	18.70	33.33	53.05	0.03	3.86	70.98	34.29	13.52
2002-03	16.05	37.74	69.91	1.18	1.79	66.90	37.66	10.89
2003-04	16.33	20.18	80.51	0.15	1.74	76.95	33.05	9.62
2004-05	28.55	29.83	96.95	0.20	14.65	116.89	42.05	10.02
South Australia								
1999-00	5.57	42.55	11.53	0.01	0.47	22.53	1.30	0.03
2000-01	4.88	39.09	16.19	0.02	0.12	32.36	2.34	0.00
2001-02	5.23	16.36	12.25	1.03	0.20	31.29	2.76	0.00
2002-03	4.60	13.27	11.55	1.14	0.83	37.78	2.58	0.00
2003-04	1.42	20.82	13.16	0.11	0.65	34.28	2.61	0.00
2004-05	1.26	20.95	27.85	0.16	1.11	44.98	4.21	0.02
Tasmania								
1999-00	1.88	3.40	0.00	0.00	0.00	1.56	4.26	4.97
2000-01	2.62	1.21	0.00	0.00	0.00	3.58	5.90	5.40
2001-02	3.05	0.00	0.00	0.00	0.02	3.06	5.64	10.86
2002-03	1.58	0.00	0.02	0.00	0.01	4.04	5.33	6.75
2003-04	1.83	0.00	0.00	0.00	0.01	4.97	4.34	4.17
2004-05	2.62	0.00	0.00	0.00	0.00	6.42	5.33	9.37
Australia								
1999-00	46.09	140.64	142.10	1.80	15.31	232.51	79.22	54.00
2000-01	53.34	136.88	194.60	2.59	2.72	285.14	88.15	61.82
2001-02	59.05	79.24	190.68	4.10	17.07	258.79	113.27	71.67
2002-03	41.80	68.54	196.46	6.32	12.42	245.23	92.80	50.09
2003-04	32.02	60.36	205.80	1.47	12.72	256.68	86.20	40.65
2004-05	49.63	87.32	285.78	1.05	61.71	385.13	99.01	48.72

^a Fob at the port of origin.

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

103 Volume of Australian fertiliser imports, by quarter

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic fertiliser	Phosphate rock
	superphosphate	phosphate	phosphate	Sulphate	Nitrate			
	kt	kt	kt	kt	kt	kt	kt	kt
1998 quarter								
March	155.4	306.7	171.7	25.0	12.5	220.0	109.6	265.1
June	79.8	242.8	112.4	0.3	13.9	344.2	117.2	187.3
September	62.3	92.5	48.2	19.6	7.5	193.3	77.7	342.1
December	47.5	101.7	61.6	0.3	16.9	162.1	76.3	306.3
1999 quarter								
March	112.6	369.4	203.1	13.6	4.6	296.5	87.4	154.1
June	62.6	208.1	100.8	5.8	13.4	386.4	115.7	81.2
September	33.0	41.9	32.1	0.3	18.5	286.3	86.8	182.9
December	38.4	95.1	154.9	0.5	32.6	226.7	86.3	255.6
2000 quarter								
March	121.4	258.0	236.2	8.5	7.3	317.5	107.5	193.4
June	47.6	175.2	156.8	0.5	6.7	569.2	72.7	123.6
September	8.9	38.5	53.2	0.4	1.1	316.2	84.4	135.6
December	54.4	38.5	91.8	0.3	4.1	122.4	70.7	311.1
2001 quarter								
March	68.4	171.3	305.0	6.8	4.2	271.9	129.8	259.5
June	92.4	199.1	197.4	4.5	1.2	429.1	61.1	116.5
September	14.5	9.0	56.5	8.4	8.3	193.2	98.8	265.8
December	70.2	20.9	126.7	0.3	15.0	212.7	70.1	267.0
2002 quarter								
March	124.7	138.1	257.7	0.4	13.9	243.1	140.1	193.3
June	70.8	102.9	218.3	9.2	19.8	646.8	107.9	207.1
September	62.4	4.9	60.4	9.0	23.1	159.9	119.6	283.7
December	6.1	21.6	123.9	2.6	13.8	114.0	47.6	160.7
2003 quarter								
March	94.3	127.9	308.3	3.6	19.3	336.0	169.6	144.5
June	25.2	82.8	198.7	13.2	14.5	462.8	95.8	122.4
September	27.9	5.6	70.8	0.7	7.6	163.7	77.7	164.7
December	15.5	12.5	177.8	0.7	27.0	214.7	48.7	225.3
2004 quarter								
March	71.6	126.7	295.4	1.3	7.1	246.6	141.7	119.1
June	48.4	67.0	196.6	1.8	12.0	531.6	178.9	214.0
September	60.1	25.2	95.0	0.7	22.9	299.2	92.8	120.0
December	68.4	51.9	189.5	1.0	50.1	157.2	92.5	242.2
2005 quarter								
March	62.4	120.6	345.1	1.6	60.0	296.8	138.2	193.2
June	40.9	89.1	296.7	1.6	42.2	535.4	173.2	241.3
September	19.3	16.2	117.9	3.9	40.7	206.2	115.1	146.7

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

104 Value of Australian fertiliser imports, by quarter ^a

	Triple	Diammonium	Monammonium	Ammonium fertilisers		Urea	Potassic	Phosphate
	superphosphate	phosphate	phosphate	Sulphate	Nitrate		fertiliser	rock
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1998 quarter								
March	36.6	91.9	50.4	6.1	3.7	38.5	24.4	17.2
June	20.5	73.6	32.7	0.1	4.0	64.3	25.3	13.2
September	17.3	32.1	16.9	4.3	2.2	37.3	18.2	26.9
December	11.3	36.5	21.0	0.1	4.8	29.1	19.9	22.3
1999 quarter								
March	29.5	119.9	65.8	2.6	1.2	42.6	20.2	10.5
June	16.1	64.0	30.6	1.4	3.5	56.8	28.1	4.7
September	7.4	11.8	9.5	0.1	4.3	37.7	18.8	13.1
December	7.1	23.4	38.1	0.1	7.8	30.7	19.9	18.3
2000 quarter								
March	21.5	62.0	55.9	1.5	1.6	52.5	24.3	13.5
June	10.0	43.5	38.5	0.1	1.5	111.6	18.9	9.1
September	1.9	9.5	15.0	0.1	0.3	70.0	21.1	9.7
December	13.5	12.8	29.2	0.1	0.9	31.3	18.6	23.5
2001 quarter								
March	17.4	50.8	89.3	1.4	1.2	78.0	33.1	19.8
June	20.5	63.8	61.1	1.0	0.4	105.8	17.9	8.8
September	3.4	2.4	17.3	1.9	2.3	35.8	29.2	21.2
December	15.1	5.6	35.4	0.1	4.7	44.9	19.8	20.5
2002 quarter								
March	26.4	40.7	75.4	0.1	4.0	51.4	37.3	14.5
June	14.2	30.6	62.6	2.1	6.1	126.6	30.9	15.5
September	14.3	1.5	18.3	1.9	6.6	32.3	31.4	20.3
December	1.4	6.8	35.5	0.5	4.0	25.0	13.0	12.4
2003 quarter								
March	19.9	35.1	83.4	0.9	5.1	79.6	41.6	10.0
June	6.3	25.2	59.2	3.0	3.7	108.3	21.8	7.5
September	6.6	1.6	18.5	0.1	1.7	36.0	18.7	10.1
December	4.0	3.1	45.5	0.1	6.3	51.5	10.7	13.5
2004 quarter								
March	12.4	35.9	83.8	0.2	1.7	55.2	29.2	5.7
June	9.0	19.7	58.0	1.0	3.0	114.0	35.0	11.3
September	16.4	7.8	30.4	0.2	7.0	79.3	22.3	7.9
December	12.6	15.6	60.5	0.2	17.1	49.7	19.6	14.8
2005 quarter								
March	11.4	37.0	106.3	0.4	21.1	85.9	28.3	11.2
June	9.3	26.9	88.6	0.3	16.5	170.2	36.0	14.9
September	3.3	6.6	40.7	0.8	14.6	64.5	30.6	8.7

^a Fob at the port of origin.

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

105 Australian sales and prices of chemicals, by product type

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

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

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

106 Australian farm fuel prices

	Petrol			Index of prices paid for fuel d
	Lead replacement a c/L	Unleaded b c/L	Off-road diesel c c/L	
1970-71	8.70	na	4.39	11.5
1971-72	9.24	na	4.65	11.5
1972-73	9.32	na	4.66	11.5
1973-74	10.31	na	4.74	12.4
1974-75	11.68	na	5.97	15.1
1975-76	13.53	na	7.86	19.5
1976-77	15.73	na	9.02	22.2
1977-78	17.68	na	11.21	25.7
1978-79	20.87	na	14.92	32.8
1979-80	26.77	na	22.22	46.1
1980-81	31.87	na	27.78	57.6
1981-82	36.00	na	29.64	63.0
1982-83	43.81	na	33.22	72.7
1983-84	48.57	na	34.00	78.9
1984-85	49.15	na	36.13	84.2
1985-86	54.32	54.32	33.91	86.9
1986-87	55.11	55.11	30.83	86.0
1987-88	57.19	57.19	31.49	88.7
1988-89	56.24	56.24	27.17	80.4
1989-90	65.41	65.41	30.89	91.6
1990-91	74.44	74.44	36.39	106.0
1991-92	72.54	72.54	33.14	99.6
1992-93	74.53	74.53	35.10	104.1
1993-94	74.72	74.22	32.47	100.5
1994-95	78.42	76.42	38.44	96.6
1995-96	79.83	77.83	38.50	100.4
1996-97	81.89	79.89	40.60	104.9
1997-98	82.19	76.22	36.71	100.0
1998-99	80.44	73.60	32.39	92.2
1999-00	94.11	85.13	41.21	112.0
2000-01	100.26	98.20	53.36	137.6
2001-02	93.11	89.78	46.80	122.9
2002-03	94.97	93.96	44.13	121.7
2003-04	109.54	95.71	55.12	138.6
2004-05	na	106.85	71.05	168.4

a Leaded petrol phased out as at 1 Jan 2002. Lead replacement petrol (LRP) introduced as at 1 Jan 2002. **b** Petrol price paid at the pump, excludes farm rebates and subsidies. **c** Average price paid by Australian farmers. Net petrol price including farm rebates and subsidies. **d** Base: 1997-98 = 100. **na** Not available.

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

107 Persons employed in agriculture, forestry and fisheries ^a

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

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

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

108 Australian wages and the consumer price index ^a

	Contract rates %	Shearing rates ^b %	Rural wages %	Average weekly earnings %	Consumer price index %
1970-71	na	na	na	na	4.5
1971-72	- 1.4	na	5.6	10.2	6.9
1972-73	1.9	na	9.3	9.0	6.1
1973-74	6.3	na	20.0	16.2	12.9
1974-75	18.8	na	37.3	26.6	16.8
1975-76	14.9	na	13.7	15.7	12.9
1976-77	12.4	13.1	13.1	14.7	13.9
1977-78	6.7	9.2	10.8	10.3	9.5
1978-79	9.4	6.2	6.1	8.4	8.2
1979-80	8.4	12.3	7.2	8.5	10.2
1980-81	9.6	9.0	9.1	12.6	9.3
1981-82	9.7	9.6	11.7	12.3	10.5
1982-83	14.9	8.5	10.1	13.1	11.5
1983-84	7.8	3.8	6.2	7.1	6.7
1984-85	6.5	8.4	7.9	5.1	4.3
1985-86	3.8	4.2	4.7	5.9	8.4
1986-87	2.2	4.4	4.7	6.2	9.4
1987-88	3.7	2.9	3.9	6.1	7.3
1988-89	7.0	11.0	7.3	6.8	7.3
1989-90	6.1	6.5	7.4	6.6	8.0
1990-91	6.7	1.4	4.8	5.9	5.3
1991-92	4.1	1.0	4.6	2.9	1.9
1992-93	3.1	4.2	3.6	2.0	1.0
1993-94	3.0	0.4	1.4	2.9	1.8
1994-95	1.9	0.8	1.4	3.4	3.2
1995-96	1.0	2.3	3.1	2.5	4.2
1996-97	1.2	1.5	2.0	3.0	1.3
1997-98	0.5	1.8	3.1	3.2	0.0
1998-99	2.0	5.3	2.0	2.4	1.2
1999-00	3.4	1.8	3.2	2.2	2.4
2000-01	6.0	3.5	2.8	5.5	6.0
2001-02	3.7	2.1	3.0	4.2	2.9
2002-03	3.4	3.7	5.7	4.4	3.1
2003-04	3.6	6.1	3.7	4.8	2.4
2004-05	3.2	3.7	3.6	4.3	2.4

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

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

109 Summary of Australian fisheries statistics

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

a Live weight. b Product weight. c Includes bugs for Queensland. d Excludes Commonwealth southern bluefin tuna as an input to South Australian farms. p Preliminary. s Includes estimates of aquaculture. na Not available.

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

110 Quantity and value of Australian production of fisheries products

	Unit	Prawns	Rock lobster ^a	Abalone	Scallops	Oysters	Tuna	Other fin fish	All fisheries products ^b
Quantity ^c									
1983-84	kt	22.7	16.0	na	na	7.0	15.8	64.0	na
1984-85	kt	20.5	14.1	na	na	7.5	13.0	73.0	na
1985-86	kt	18.5	11.8	na	na	6.8	13.5	76.0	na
1986-87 ^s	kt	21.0	12.0	na	na	7.1	12.0	85.0	na
1987-88 ^s	kt	23.0	16.0	na	na	8.0	11.0	94.0	na
1988-89 ^s	kt	28.0	18.0	0.0	0.0	8.0	9.0	98.0	168.0
1989-90 ^s	kt	23.3	15.7	0.0	0.0	7.5	8.2 ^e	120.9	182.8
1990-91 ^s	kt	29.1	14.7	0.0	0.0	8.1	11.7 ^f	145.4	216.3
1991-92 ^s	kt	24.5	18.5	0.0	0.0	8.2	13.2 ^f	139.8	212.9
1992-93 ^s	kt	25.1	18.4	3.4	33.0	8.6	10.2 ^f	123.6	236.9
1993-94 ^s	kt	23.2	16.8	3.3	23.7	8.7	7.7 ^f	121.9	223.9
1994-95 ^s	kt	28.0	16.4	3.8	15.8	9.4	8.7 ^f	127.5	232.2
1995-96 ^s	kt	29.4	15.7	3.9	15.3	10.1	9.2 ^f	123.5	228.6
1996-97 ^s	kt	27.7	15.8	3.8	8.8	10.1	13.0 ^f	128.5	222.8
1997-98 ^s	kt	29.6	16.6	3.8	10.4	10.7	11.9 ^f	134.3	232.3
1998-99 ^s	kt	31.2	19.4	5.6	11.3	8.7	16.7 ^f	126.5	236.7
1999-00 ^s	kt	26.8	20.5	5.6	12.0	9.7	16.2 ^f	113.5	221.9
2000-01 ^s	kt	30.1	16.8	5.7	9.2	9.6	16.1 ^f	122.0	231.3
2001-02 ^s	kt	29.4	14.3	5.9	5.6	10.2	15.9 ^f	137.3	237.1
2002-03 ^s	kt	26.3	17.1	5.2	8.4	11.4	14.7 ^f	150.8	253.0
2003-04 ^s	kt	27.2	19.9	5.8	9.2	13.5	14.4 ^f	163.5	273.0
2004-05 ^{ps}	kt	23.5	17.9	5.9	15.3	11.3	13.9 ^f	132.5	na
Value									
1983-84 ^s	\$m	145.3	134.0	29.4	24.6	20.1	12.6 ^g	83.0	na
1984-85 ^s	\$m	164.0	172.0	35.0	20.0	29.0	14.0	88.0	na
1985-86 ^s	\$m	190.0	140.0	60.0	24.0	30.0	17.0	102.0	na
1986-87 ^s	\$m	216.0	186.0	84.0	25.0	31.0	23.0	137.0	na
1987-88 ^s	\$m	246.0	252.0	96.0	22.0	36.0	19.0	157.0	na
1988-89 ^s	\$m	274.0	280.0	86.0	21.0	38.0	19.0	215.0	1 022.3 ^h
1989-90 ^s	\$m	226.0	245.0	90.0	25.0	36.0	66.0 ^e	278.0	1 093.0 ^h
1990-91 ^s	\$m	262.9	287.5	92.1	42.3	43.2	66.5 ^f	269.8	1 223.1 ^h
1991-92 ^s	\$m	244.1	369.1	94.6	82.8	44.3	76.2 ^f	301.3	1 376.2 ^h
1992-93 ^s	\$m	291.3	348.8	127.5	94.4	41.2	116.2 ^f	320.7	1 517.4 ^h
1993-94 ^s	\$m	320.6	431.7	178.4	82.1	42.4	107.8 ^f	322.5	1 719.0 ^h
1994-95 ^s	\$m	368.0	452.5	144.7	64.2	47.6	129.8 ^f	336.8	1 844.7 ^h
1995-96 ^s	\$m	368.4	374.6	142.4	66.7	51.5	85.0 ^f	352.2	1 724.8 ^h
1996-97 ^s	\$m	344.3	413.3	152.5	36.7	52.0	96.0 ^f	378.3	1 731.3 ^h
1997-98 ^s	\$m	385.3	377.1	182.1	39.8	47.0	130.8 ^f	395.6	1 835.7 ^h
1998-99 ^s	\$m	416.4	438.5	172.9	37.7	45.2	221.5 ^f	442.7	2 109.8 ^h
1999-00 ^s	\$m	414.6	545.6	220.7	43.2	53.3	256.7 ^f	454.3	2 344.0 ^h
2000-01 ^s	\$m	453.3	481.0	276.4	39.5	55.1	328.8 ^f	489.7	2 438.8
2001-02 ^s	\$m	428.7	501.8	247.4	22.8	56.9	322.9 ^f	546.3	2 429.7
2002-03 ^s	\$m	360.0	460.2	215.7	32.8	62.1	316.6 ^f	560.0	2 305.1
2003-04 ^s	\$m	355.3	408.3	196.1	23.6	71.8	187.3 ^f	551.3	2 094.9
2004-05 ^{ps}	\$m	326.0	409.1	251.8	45.5	58.6	184.0 ^f	437.1	2 036.4

a Includes bugs for Queensland. **b** Excludes those products for which no quantity data is available, eg live fish, pearls and some non-edible fisheries products. **c** Live weight. **d** Excludes production in Victoria and Queensland. **e** Includes an estimate of tuna production from joint venture agreements. **f** Excludes Commonwealth southern bluefin tuna as an input to South Australian farms. **g** Excludes the value of Queensland production. **h** Includes pearls and other products. **p** Preliminary. **s** ABARE estimate; the values of production are based on values to fishing operators (ABS estimates of gross value of production include certain marketing costs in some cases). **na** Not available.
 Sources: ABARE, *Australian Fisheries Statistics*, Canberra; ABS, *Fisheries, Australia*, cat. no. 7603.0, Canberra; ABARE.

111 Australian exports of prawns, by product type and destination

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

a Product weight.

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

112 Australian imports of prawns, by products type and source

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

a Product weight.

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

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

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

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

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

114 Australian imports of lobster, by source

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

a Product weight.

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

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

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

a Product weight.

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

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

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

a Product weight.

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

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

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

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

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

118 Australian imports of fish, by product type and source

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

a Product weight. na Not available.

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

119 Australian exports and imports of oysters, by country

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

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

120 Summary statistics for the Australian processed food industry

	Employment at 30 June a		Wages and salaries b		Sales and service income c		Industry value added	
	1999-00 '000	2000-01 '000	2001-02 \$m	2002-03 \$m	2001-02 \$m	2002-03 \$m	2001-02 \$m	2002-03 \$m
Meat								
Meat processing	28	28	1 036	1 211	10 251	9 505	1 584	2 005
Poultry processing	13	16	556	614	3 315	3 604	941	957
Bacon, ham and smallgoods	7	8	294	313	1 964	2 060	451	510
Total	47	53	1 886	2 138	15 530	15 168	2 976	3 473
Dairy								
Milk and cream processing	6	5	310	260	2 724	2 803	696	506
Ice cream	3	2	59	69	478	520	110	133
Other dairy products	9	12	480	501	5 901	5 586	1 056	958
Total	17	19	849	831	9 103	8 909	1 862	1 598
Fruit and vegetables	11	16	568	581	4 001	4 439	1 063	1 072
Oil and fat	1	4	145	165	1 544	1 833	326	393
Flour mill and cereal food								
Flour mill products	2	3	125	131	1 608	1 775	334	339
Cereal food and baking mixes	6	7	239	274	2 078	2 319	543	600
Total	8	10	364	405	3 685	4 094	876	939
Bakery products								
Bread	10	12	452	449	1 712	1 814	718	693
Cakes and pastry products	10	9	233	239	956	1 028	346	366
Biscuits	5	7	222	237	1 050	1 045	409	431
Total	25	28	908	924	3 719	3 887	1 473	1 491
Other food								
Sugar	6	6	241	246	2 357	2 399	468	476
Confectionery	6	6	278	315	1 649	1 862	638	741
Seafood	4	4	121	133	1 595	1 515	218	225
Prepared animal and bird feed	5	4	228	240	2 666	3 083	493	495
Food nec	14	15	860	1 023	6 743	7 192	1 832	1 942
Total	35	35	1 727	1 958	15 010	16 052	3 648	3 879
Beverage and malt								
Soft drink, cordial and syrup	6	6	378	351	3 330	3 194	968	1 018
Beer and malt	3	4	284	292	3 165	3 420	1 287	1 310
Wine	9	12	661	637	5 079	4 866	1 717	1 397
Spirits	0	0	0	0	0	0	0	0
Total	18	22	1 323	1 279	11 574	11 479	3 971	3 725
Total food and beverages	163	187	7 770	8 281	64 165	65 861	16 195	16 568

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

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

121 Value of Australian food exports, by level of transformation

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

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

122 Value of Australian food exports, to selected regions

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

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

123 Value of Australian food imports, by level of transformation

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

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

124 Value of Australian food imports from selected regions

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

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

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

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

Continued

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

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

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

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

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

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

Continued

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

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

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

Sources: International Trade Centre UNCTAD/WTO; ABARE.

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

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

Continued

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

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

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

Sources: International Trade Centre, UNCTAD/WTO.

128 Summary of Australian statistics for roundwood ^a

	Removals of roundwood ^a			Imports ^b	Exports ^b	Consumption	Consumption per person
	Broadleaved	Coniferous	Total				
	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	'000 m ³	m ³
1960-61	9 135	1 664	10 799	4 101	271	14 629	1.39
1961-62	8 376	1 678	10 054	2 969	348	12 675	1.18
1962-63	8 784	1 869	10 653	3 423	276	13 800	1.26
1963-64	9 341	1 934	11 275	3 774	315	14 734	1.32
1964-65	9 555	2 054	11 609	4 138	308	15 439	1.36
1965-66	9 583	2 169	11 752	4 002	243	15 511	1.34
1966-67	9 144	2 183	11 327	4 110	414	15 023	1.27
1967-68	9 187	2 238	11 425	4 396	301	15 520	1.29
1968-69	8 987	2 344	11 331	4 624	342	15 613	1.27
1969-70	9 106	2 415	11 521	4 904	406	16 019	1.28
1970-71	9 256	2 555	11 811	4 999	435	16 375	1.25
1971-72	8 988	2 673	11 661	4 603	465	15 799	1.19
1972-73	9 778	2 808	12 586	5 937	2 110	16 413	1.22
1973-74	11 063	2 636	13 699	4 896	2 860	15 735	1.15
1974-75	10 921	2 850	13 771	5 404	3 145	16 030	1.15
1975-76	9 995	2 877	12 872	4 752	2 798	14 826	1.06
1976-77	11 331	3 078	14 409	5 558	3 831	16 136	1.14
1977-78	11 259	3 282	14 541	4 690	3 670	15 561	1.08
1978-79	10 595	3 381	13 976	5 478	4 156	15 298	1.05
1979-80	11 720	3 866	15 586	5 667	5 185	16 068	1.09
1980-81	11 464	4 447	15 911	6 019	4 568	17 362	1.16
1981-82	10 348	4 524	14 872	6 403	4 245	17 030	1.12
1982-83	9 217	4 442	13 659	4 694	4 206	14 147	0.92
1983-84	10 537	4 689	15 226	5 856	4 586	16 496	1.06
1984-85	10 919	5 768	16 687	7 195	4 626	19 256	1.22
1985-86	10 949	5 958	16 907	6 943	4 836	19 014	1.19
1986-87	11 222	5 516	16 738	6 333	5 845	17 226	1.06
1987-88	11 162	5 686	16 848	7 894	5 654	19 088	1.15
1988-89	11 475	6 153	17 628	8 069	5 093	20 604	1.23
1989-90	10 534	7 030	17 564	7 947	5 266	20 245	1.19
1990-91	10 037	6 553	16 590	6 836	5 522	17 904	1.04
1991-92	9 512	7 141	16 653	7 351	5 748	18 256	1.04
1992-93	9 801	7 866	17 667	7 697	6 106	19 258	1.09
1993-94	9 793	8 969	18 762	7 681	6 689	19 754	1.11
1994-95	10 857	8 703	19 560	8 915	7 976	20 499	1.13
1995-96	9 920	9 305	19 225	6 918	7 384	18 759	1.02
1996-97	9 442	10 562	20 003	7 502	8 462	19 043	1.03
1997-98	9 793	11 016	20 808	8 047	10 302	18 553	0.99
1998-99	9 504	11 816	21 320	8 124	9 896	19 549	1.03
1999-00	11 774	12 484	24 258	9 585	12 355	21 488	1.12
2000-01	11 510	12 700	24 211	8 489	13 017	19 682	1.01
2001-02	10 557	13 985	24 542	8 276	13 807	19 011	0.97
2002-03	11 714	15 003	26 717	9 048	14 869	20 895	1.05
2003-04	10 984	14 701	25 684	9 921	14 918	20 687	1.03
2004-05 ^s	11 400	13 900	25 300	10 361	15 133	20 528	na

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

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

129 Land areas by vegetation cover ^a

	NSW '000 ha	Vic. '000 ha	Qld '000 ha	WA '000 ha	SA '000 ha	Tas. '000 ha	NT '000 ha	ACT '000 ha	Aust. '000 ha
Closed forest	486	18	2 952	169	15	598	406	0	4 644
(% of land area)	0.61	0.08	1.71	0.07	0.02	8.82	0.30	0.00	0.60
Open forest	19 786	5 486	6 768	3 327	2 112	889	7 139	96	45 603
(% of land area)	24.68	24.10	3.92	1.32	2.15	13.12	5.30	39.92	5.94
Woodland forest	2 755	2 431	39 739	21 869	8 739	1 682	25 290	22	102 526
(% of land area)	3.44	10.68	23.01	8.66	8.88	24.81	18.79	9.03	13.35
Plantation ^b	341	383	215	370	164	226	12	5	1 716
(% of land area)	0.43	1.68	0.12	0.15	0.17	3.33	0.01	2.26	0.22
Unknown	3 632		6 275						9 907
(% of land area)	4.53		3.63						1.29
Total forest									
vegetation cover	26 999	8 318	55 949	25 734	11 029	3 395	32 848	123	164 346
(% of land area)	33.68	36.55	32.39	10.19	11.21	50.08	24.40	51.21	21.39
Total land area	80 160	22 760	172 720	252 550	98 400	6 780	134 620	240	768 230

^a NFI 2005. ^b As at December 2004.

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

130 Australian prices of selected forest products

	Timber, panels and joinery a	Structural timber		Plywood and board b	Hardwood chips c	Softwood chips c	Newsprint d
		Hardwood b index	Softwood b index				
1980-81	50.3	50.2	53.1	49.1	na	na	na
1981-82	54.1	55.7	55.4	53.9	na	na	na
1982-83	57.7	60.4	60.1	60.6	na	na	na
1983-84	63.0	65.2	65.7	64.4	na	na	na
1984-85	70.1	72.2	72.6	67.3	na	na	na
1985-86	75.7	76.5	79.7	72.6	na	na	na
1986-87	79.2	79.9	81.7	75.3	na	na	na
1987-88	84.0	82.8	83.5	83.6	na	na	na
1988-89	93.4	94.4	94.0	92.9	144.00	101.83	672.23
1989-90	100.0	100.0	100.0	100.0	147.03	115.34	708.97
1990-91	101.9	101.7	103.7	104.0	147.89	126.74	708.76
1991-92	100.1	100.1	100.9	107.1	150.90	149.32	716.31
1992-93	103.8	105.0	109.2	106.9	148.34	149.22	687.75
1993-94	115.6	114.0	137.4	113.9	149.90	137.75	703.22
1994-95	118.8	122.7	137.4	117.5	152.76	140.65	715.79
1995-96	116.4	121.7	127.8	111.0	160.45	167.50	1 007.91
1996-97	116.2	118.6	123.2	108.2	161.96	138.58	888.20
1997-98	118.8	121.6	129.2	109.0	151.57	144.16	900.13
1998-99	120.6	126.8	133.0	108.7	152.02	147.52	930.02
1999-00	127.1	138.1	137.9	110.9	140.35 s	137.00 s	942.99
2000-01	133.3	150.5	139.5	114.2	146.26	158.39	961.77
2001-02	134.6	153.2	139.5	117.2	149.34	157.57	993.54
2002-03	138.1	157.5	142.6	121.7	150.81	138.71	922.91
2003-04	141.7	161.4	145.3	125.5	156.93	128.15	912.47
2004-05	144.1	na	na	na	158.40	132.56	868.61

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

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

131 Value of turnover in forest products industries ^a

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

^a Turnover is defined as follows: sales of goods whether produced by the establishment or not, plus transfers out of goods to other establishments of the same enterprise, plus bounties and subsidies on production, plus all other operating revenue from outside the enterprise such as commission, repair and service revenue, plus capital work done for own use or for rental or lease. Receipts from rent, leasing, interest other than hire purchase, royalties and the sale of fixed tangible assets are excluded. Since 1988-89, full ABS censuses of manufacturing establishments have been conducted triennially. ^b Included with Paper bags including sack manufacturing. **na** Not available.

Source: ABS, *Manufacturing Industry, Australia*, cat. no. 8221.0, Canberra.

132 Employment in forest products industries ^a

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

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

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

133 Value of Australian forest products trade ^a

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

Continued

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

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

^a Values are duty or customs values for imports and fob from Australian ports for exports. ^b Includes such items as wooden doors, mouldings, packing cases, parquet flooring, builders carpentry, cork, gums, resins, eucalyptus oils and other miscellaneous wood articles. Excludes wood furniture. ^c Includes such items as boxes, bags, account books, note books, letter pads and other paper stationery.

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

134 Australian production, trade and consumption of sawnwood

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

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

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

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

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

a Includes luan and seraya.

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

136 Australian production, trade and consumption of panel products

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

^a Excludes laminated veneer lumber production from July 2003.

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

137 Australian production of plywood, by type

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

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

Sources: Plywood Association of Australia; ABARE.

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

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

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

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

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

a A3P estimate. na Not available.

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

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

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

Continued

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

continued

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

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

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

141 Australian production of wood pulp and use of wastepaper

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

^a Details for semichemical pulp are included in chemical pulp. **na** Not available.

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

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

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

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

143 Volume of Australian roundwood and woodchip trade

	Imports		Exports		
	Roundwood a	Roundwood a	Woodchips b		Total
	'000m ³	'000m ³	Coniferous kt	Broadleaved kt	
1970-71	118.2	na	na	na	na
1971-72	122.2	na	na	na	na
1972-73	97.1	na	na	na	na
1973-74	102.1	na	na	na	na
1974-75	37.2	na	na	na	na
1975-76	46.4	na	na	na	na
1976-77	32.2	na	na	na	na
1977-78	27.6	na	na	na	3 081
1978-79	17.0	na	na	na	3 554
1979-80	0.6	na	na	na	4 426
1980-81	0.1	na	na	na	4 219
1981-82	1.7	na	na	na	3 821
1982-83	1.7	na	na	na	3 797
1983-84	0.5	na	na	na	4 443
1984-85	0.5	na	na	na	4 565
1985-86	1.0	na	na	na	4 447
1986-87	1.0	na	na	na	4 954
1987-88	1.7	na	na	na	4 025
1988-89	2.9	8.4	110	2 787	2 897
1989-90	6.3	5.3	122	2 475	2 597
1990-91	0.5	79.5	118	2 687	2 804
1991-92	0.3	86.2	317	2 454	2 770
1992-93	1.6	242.0	384	2 458	2 843
1993-94	6.1	420.7	503	2 530	3 033
1994-95	2.1	286.7	857	2 870	3 728
1995-96	1.6	351.1	820	2 531	3 351
1996-97	1.1	615.5	852	2 471	3 323
1997-98	6.1	391.0	1 045	3 270	4 315
1998-99	5.7	778.3	1 033	2 852	3 885
1999-00	2.3	1 149.7	1 046	3 582	4 628
2000-01	1.3	949.3	1 100	3 894	4 994
2001-02	0.9	1 192.4	849	3 872	4 721
2002-03	2.3	1 198.9	995	4 442	5 437
2003-04	1.7	1 335.0	1 099	4 165	5 264
2004-05	1.4	806.5	1 104	4 494	5 598

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

144 Summary of Australian statistics for grapes and grape products

	Grape production kt	Grape use		Australian wine		Production of dried vine fruit kt	Exports of dried vine fruit kt
		Wine making kt	Drying and table kt	Domestic sales ML	Sales per person L		
1960-61	535.0	187.6	347.4	53.1	5.0	83.0	57.6
1961-62	638.0	234.5	403.5	54.3	5.1	98.1	65.8
1962-63	479.0	169.3	309.7	57.1	5.2	71.6	61.9
1963-64	665.3	214.3	451.0	60.9	5.5	106.0	64.0
1964-65	690.5	225.4	465.1	63.0	5.5	109.6	70.9
1965-66	591.5	186.7	404.8	69.7	6.0	92.4	82.1
1966-67	694.7	241.5	453.2	79.8	6.8	108.4	69.0
1967-68	638.6	253.4	385.2	90.1	7.5	86.4	68.5
1968-69	553.4	299.6	253.8	100.2	8.2	55.6	62.4
1969-70	757.6	357.7	399.9	110.9	8.9	94.3	44.1
1970-71	548.0	293.6	254.4	110.5	8.5	60.4	59.9
1971-72	827.0	345.4	481.6	115.7	8.7	103.4	56.3
1972-73	606.3	330.5	275.8	130.0	9.6	57.0	72.6
1973-74	555.2	344.0	211.2	148.1	10.8	56.9	26.9
1974-75	733.6	432.5	301.1	168.0	12.1	66.9	31.6
1975-76	714.6	413.1	301.5	177.3	12.6	70.3	53.2
1976-77	728.4	458.3	270.1	187.0	13.2	64.5	44.2
1977-78	726.7	423.7	303.0	197.4	13.7	68.7	35.9
1978-79	760.4	466.1	294.3	231.1	15.9	61.8	46.1
1979-80	914.0	503.2	410.8	247.4	16.8	98.6	61.8
1980-81	754.8	486.8	268.0	264.9	17.7	60.2	52.1
1981-82	942.9	499.9	443.0	278.3	18.3	96.2	39.9
1982-83	807.3	431.3	376.0	293.7	19.1	84.5	58.1
1983-84	881.1	495.1	386.0	305.8	19.6	86.7	58.3
1984-85	890.0	559.0	331.0	320.5	20.3	77.0	56.0
1985-86	906.6	509.9	396.7	325.2	20.3	100.9	54.0
1986-87	859.2	523.5	335.7	329.8	20.3	69.8	58.2
1987-88	864.4	498.0	366.4	330.5	20.0	78.8	42.0
1988-89	977.1	640.6	336.5	309.1	18.4	64.4	51.9
1989-90	936.1	602.6	333.5	300.6	17.6	65.0	38.8
1990-91	940.0	539.0	401.0	296.3	17.1	88.7	36.4
1991-92	1 111.5	635.2	476.3	314.8	18.0	101.9	44.5
1992-93	909.5	626.2	283.3	312.1	17.7	45.4	55.1
1993-94	1 080.8	777.4	303.4	319.5	17.9	50.4	41.2
1994-95	939.7	629.8	309.8	316.3	17.5	53.5	14.7
1995-96	1 095.4	883.3	212.0	307.5	16.8	37.7	15.2
1996-97	1 161.0	798.0	363.0	332.8	18.0	69.3	25.3
1997-98	1 146.7	950.8	196.0	338.8	18.1	29.0	12.3
1998-99	1 293.8	1 101.0	192.8	348.3	18.4	44.0	13.7
1999-00	1 338.5	1 129.0	209.5	369.3	19.3	31.0	4.9
2000-01	1 590.7	1 421.9	168.8	384.8	19.8	16.7	6.4
2001-02	1 833.4	1 606.3	227.1	385.3	19.6	34.0	5.9
2002-03	1 548.7	1 411.4	137.3	402.5	20.3	17.0	9.7
2003-04	2 093.7	1 895.3	198.4	417.4	20.8	27.0	6.8
2004-05	2 104.2	1 936.2	168.0	430.6	na	30.0	6.6

na Not available.

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

145 Australian wine exports, by type and major destination

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

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

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

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

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

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

147 Australian wine grape production and prices

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

Sources: ABS, *Australian Wine and Grape Industry*, cat. no. 1329.0, Canberra; ABS, *Sales of Australian Wine and Brandy by Winemakers*, cat. no. 8504.0, Canberra; Phylloxera and Grape Industry Board of South Australia, Adelaide; ABARE.

148 Retail price indexes for alcoholic beverages ^a

	Beer	Wine	Spirits	Consumer price index ^b
1980-81	46.3	56.8	47.5	49.4
1981-82	51.1	60.5	51.2	54.6
1982-83	58.2	65.8	55.6	60.9
1983-84	63.8	70.7	59.7	65.0
1984-85	69.0	75.6	63.7	67.8
1985-86	75.1	77.7	69.8	73.5
1986-87	82.8	83.9	77.1	80.4
1987-88	90.4	89.0	84.1	86.3
1988-89	91.9	96.0	91.4	92.6
1989-90	100.0	100.0	100.0	100.0
1990-91	107.0	100.9	110.6	105.3
1991-92	112.0	103.7	117.3	107.3
1992-93	115.2	105.6	119.3	108.4
1993-94	119.1	110.4	122.4	110.4
1994-95	122.7	116.0	126.4	113.9
1995-96	129.4	122.0	130.0	118.7
1996-97	132.9	124.3	134.6	120.3
1997-98	103.9	128.6	134.2	120.3
1998-99	135.9	130.3	136.6	121.8
1999-00	138.8	130.7	138.5	124.7
2000-01	151.2	137.8	147.3	132.2
2001-02	155.3	141.8	151.8	136.0
2002-03	161.6	143.2	157.2	140.2
2003-04	172.8	146.6	161.4	143.5
2004-05	180.4	148.6	165.0	147.0

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

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

149 Production and trade in Australian dried vine fruit

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

^a Weighted average based on realisations by Australian Dried Fruits Association packers (who pack over 90 per cent of Australian dried vine fruit) before deduction of packers' costs and charges. ^s ABARE estimate.

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

150 Production and exports of Australian citrus, by variety

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

a Fresh and dried.

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

151 Summary of Australian statistics for meat ^a

	Cattle numbers ^b million	Sheep numbers ^b million	Total red meat production ^c kt	Total red meat exports ^d kt	Total domestic consumption kt	Consumption per person			
						Beef and veal ^e kg	Lamb and mutton kg	Pig meat kg	Poultry meat kg
1960	16.50	154.9	1 426	330	1 024	38.7	46.0	8.3	4.4
1961	17.33	152.4	1 361	461	987	42.4	44.5	9.4	4.4
1962	18.03	157.4	1 545	556	1 030	45.3	42.4	8.8	4.4
1963	18.55	158.3	1 647	597	1 069	47.5	40.6	8.5	4.4
1964	18.40	164.7	1 718	653	1 078	45.0	38.6	8.8	5.2
1965	18.19	170.3	1 717	622	1 080	42.0	37.6	9.5	6.2
1966	17.39	157.3	1 706	564	1 047	38.6	38.0	9.8	7.4
1967	17.71	163.9	1 645	608	1 059	40.7	38.5	10.1	8.4
1968	18.65	166.6	1 720	598	1 088	41.3	40.7	10.8	9.0
1969	20.02	174.3	1 850	785	1 136	38.6	37.5	11.3	10.5
1970	21.55	179.8	1 955	775	1 120	39.6	36.4	13.6	10.4
1971	23.73	177.5	2 148	924	1 263	40.3	43.6	13.8	11.1
1972	26.70	162.7	2 283	1 168	1 240	40.4	39.2	14.6	12.3
1973	28.44	139.9	2 269	1 154	1 163	43.6	27.5	16.0	13.0
1974	30.16	145.0	1 945	665	1 278	55.0	25.6	13.1	13.4
1975	32.04	151.5	2 364	1 001	1 415	62.0	23.7	11.7	13.4
1976	32.67	148.5	2 670	1 204	1 421	66.4	21.1	12.1	14.4
1977	30.95	135.2	2 889	1 420	1 440	70.3	19.4	13.0	15.6
1978	28.63	131.3	2 824	1 449	1 370	65.9	17.0	13.3	16.6
1979	26.41	134.1	2 513	1 334	1 229	50.4	21.0	13.5	18.7
1980	25.52	135.9	2 311	1 159	1 180	45.3	19.8	15.5	20.1
1981	24.50	134.3	2 172	939	1 232	48.2	19.2	15.3	20.2
1982	23.89	137.9	2 473	1 184	1 294	50.1	20.7	14.8	19.4
1983	21.86	130.4	2 131	948	1 218	43.0	20.9	15.9	20.2
1984	21.54	135.2	2 003	709	1 301	45.0	22.5	16.4	19.8
1985	22.15	145.5	2 162	859	1 288	40.7	24.7	16.7	21.6
1986	22.80	150.3	2 341	1 032	1 306	42.0	22.9	17.2	22.8
1987	21.31	149.1	2 452	1 131	1 314	40.5	23.3	17.3	23.2
1988	21.24	152.3	2 404	1 102	1 310	40.6	21.6	17.7	24.0
1989	21.80	161.5	2 465	1 087	1 387	42.7	22.7	18.0	24.3
1990	22.53	170.2	2 705	1 312	1 375	40.0	22.8	18.6	25.1
1991	23.66	163.2	2 739	1 381	1 385	39.5	22.8	18.7	25.5
1992	23.88	148.2	2 827	1 499	1 339	37.2	20.5	19.7	25.4
1993	24.06	138.1	2 805	1 481	1 323	36.8	19.4	19.3	26.8
1994	25.76	132.6	2 863	1 479	1 426	39.0	21.2	20.2	27.6
1995	25.73	120.9	2 656	1 386	1 285	34.7	16.8	20.1	27.1
1996	26.38	121.1	2 634	1 304	1 353	39.1	16.7	18.7	27.9
1997	26.69	120.2	2 883	1 497	1 414	41.0	16.9	19.0	29.3
1998	26.85	117.5	2 973	1 606	1 390	38.2	16.9	19.5	31.1
1999	26.04	115.4	2 982	1 637	1 388	38.3	16.0	19.4	31.3
2000	27.59	118.6	3 132	1 759	1 446	38.1	17.8	19.9	33.2
2001	27.72	110.9	3 136	1 849	1 352	34.9	16.2	19.0	32.7
2002	27.87	106.2	3 131	1 803	1 423	37.4	14.7	20.8	36.3
2003	26.66	99.3	2 960	1 622	1 452	38.2	12.9	22.5	35.1
2004	27.46	101.3	3 081	1 787	1 426	36.3	12.6	22.7	35.0

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

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

152 Australian saleyard prices of livestock ^a

	Yearling c/kg	Ox c/kg	Cow c/kg	Weighted average c/kg	Lamb c/kg	Mutton c/kg	Pig c/kg
1978	70.3	70.4	61.2	65.9	87.8	46.9	114.9
1979	152.9	148.7	136.2	144.2	112.4	69.7	145.8
1980	150.8	149.0	131.8	141.4	130.4	72.1	142.2
1981	140.3	126.1	111.6	123.7	128.8	69.2	170.9
1982	126.9	119.3	101.2	113.2	106.3	45.8	193.7
1983	166.8	157.5	136.9	150.5	108.6	45.3	162.4
1984	194.5	164.1	149.4	166.8	113.1	48.5	171.1
1985	193.0	173.8	155.6	171.3	89.1	35.8	176.9
1986	197.5	183.2	155.2	174.3	116.1	34.8	182.2
1987	207.6	196.3	167.3	186.7	128.5	43.0	186.3
1988	232.4	210.2	179.9	203.6	132.3	61.7	201.0
1989	245.8	213.5	185.1	212.6	137.7	45.4	222.1
1990	247.4	219.2	183.3	213.4	137.0	16.5	201.4
1991	229.5	219.6	176.2	202.1	120.6	11.2	214.3
1992	226.7	225.4	174.2	200.3	131.4	28.9	196.1
1993	244.9	250.1	184.8	218.6	179.7	34.5	213.0
1994	257.8	243.9	187.0	222.6	145.5	34.1	202.3
1995	238.3	216.9	169.2	201.8	175.7	68.4	218.1
1996	185.4	163.2	129.9	155.3	216.1	67.7	247.4
1997	190.0	184.7	135.3	162.6	192.1	75.2	218.6
1998	208.2	203.3	158.3	181.0	158.3	79.3	179.9
1999	233.1	215.4	183.5	204.3	187.5	60.6	216.0
2000	261.8	246.1	219.7	237.1	168.3	71.8	249.1
2001	331.0	315.5	289.4	307.2	251.7	143.8	276.2
2002	289.3	275.4	235.3	259.1	314.6	169.9	260.3
2003	318.7	309.3	249.9	281.3	387.1	203.5	240.1
2004	343.9	324.0	289.3	310.2	353.5	173.7	245.1
2004							
January	329.3	322.1	282.8	305.0	372.1	180.1	240.1
February	320.3	300.7	252.1	282.5	381.0	189.4	226.6
March	320.7	302.8	261.3	286.5	360.6	182.6	222.0
April	315.8	292.8	288.9	279.1	349.8	173.7	220.6
May	316.0	298.6	292.6	280.8	364.4	182.6	217.9
June	332.1	313.0	270.2	296.9	323.1	200.9	217.1
July	351.7	328.0	282.5	312.3	261.3	115.6	230.8
August	368.5	348.3	300.2	331.6	453.4	209.6	253.8
September	378.1	353.9	317.5	345.2	374.5	180.3	277.8
October	365.2	344.6	305.6	333.7	313.0	156.4	277.8
November	365.0	350.6	318.1	341.1	334.8	155.9	278.1
December	363.7	333.0	300.0	327.2	354.3	157.1	278.3
2005							
January	371.3	328.6	287.9	322.2	343.0	146.9	265.7
February	364.5	326.4	285.1	318.2	344.3	158.9	257.7
March	359.1	318.1	275.5	310.8	332.3	154.1	246.3
April	343.6	311.8	265.2	300.1	325.6	157.9	235.1
May	341.4	313.1	265.4	300.0	334.0	168.2	219.7
June	341.0	310.0	265.4	295.0	358.5	183.0	215.9

^a Prices are on an estimated dressed weight basis and, with the exception of 'yearling', are for export quality stock: ox, 301–350 kilograms; cow, 201–260 kilograms; before January 1996, lamb, 16–18 kilograms, score 3; from January 1996, lamb, 18–20 kilograms, score 3; mutton, 18–24 kilograms, score 3; and pig, 60–73 kilograms. Quotation is the monthly average of fat stock prices in each major state market, weighted by the monthly production of each meat in the respective states.

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

153 Australian retail prices of meat

	Beef a c/kg	Lamb a c/kg	Pork a c/kg	Chicken b c/kg
1980	545.7	370.7	384.0	204.5
1981	542.0	368.0	439.3	235.0
1982	545.8	366.5	490.9	248.0
1983	619.3	384.5	505.9	258.3
1984	653.7	398.4	507.7	254.6
1985	682.6	396.1	537.9	269.5
1986	708.3	433.1	556.9	275.2
1987	747.0	481.6	586.6	288.6
1988	814.4	519.6	621.9	285.7
1989	908.9	554.4	679.9	311.3
1990	961.6	582.6	700.2	310.1
1991	974.0	570.7	710.0	302.6
1992	963.7	551.8	698.7	298.2
1993	963.7	620.8	716.7	295.6
1994	997.4	611.0	719.6	301.0
1995	1 008.0	655.0	732.2	303.8
1996	991.0	708.8	771.7	333.5
1997	978.0	704.7	798.1	365.9
1998	982.3	696.1	773.7	344.3
1999	1 010.8	723.3	807.7	356.6
2000	1 061.0	724.3	850.1	355.7
2001	1 226.2	857.8	945.6	363.6
2002	1 320.7	982.8	1 024.8	384.7
2003	1 367.4	1 086.2	1 021.3	383.1
2004	1 400.1	1 055.6	1 038.1	381.1
2001				
March	1 114.2	765.1	889.4	370.7
June	1 214.2	847.5	920.1	342.4
September	1 253.8	897.4	962.5	364.1
December	1 322.6	921.4	1 010.5	377.2
2002				
March	1 328.2	962.1	1 047.4	383.8
June	1 339.5	1 007.9	1 021.7	395.1
September	1 298.1	979.8	1 016.1	383.1
December	1 316.9	981.5	1 014.0	376.8
2003				
March	1 325.4	981.4	1 020.3	383.8
June	1 360.3	1 075.4	1 016.8	396.5
September	1 390.4	1 153.3	997.3	374.8
December	1 393.3	1 134.4	1 050.9	377.2
2004				
March	1 396.1	1 144.7	1 045.3	382.0
June	1 393.3	1 136.7	1 017.5	381.3
September	1 381.0	978.4	1 044.7	381.3
December	1 430.0	962.6	1 044.7	379.8
2005				
March	1 474.3	969.1	1 044.7	378.4
June	1 472.6	977.0	1 052.8	367.0

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

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

154 Prices for Australian meat on principal overseas markets

	Beef				Mutton	Lamb	
	United States		Japan ^a		Japan ^a	United Arab Emirates ^a	United States ^a
	Boneless frozen ^b US\$/kg cif	Boneless frozen ^b A\$/kg fas	Boneless frozen A\$/kg fob	Boneless chilled A\$/kg fob	Boneless chilled ^c A\$/kg fob	Carcasses frozen A\$/kg fob	Bone-in frozen A\$/kg fob
1980	263.0	200.0	na	na	na	166.0	na
1981	245.0	175.0	217.0	274.0	181.0	168.0	na
1982	230.0	190.0	230.0	285.0	174.0	164.0	na
1983	241.0	227.0	268.0	363.0	152.0	155.0	na
1984	226.0	222.0	273.0	352.0	170.0	167.0	na
1985	212.0	260.0	305.0	397.0	172.0	160.0	na
1986	201.0	262.0	308.0	439.0	159.0	166.0	na
1987	229.0	283.0	341.0	464.0	186.0	184.0	na
1988	245.0	270.0	336.9	477.2	172.8	188.9	238.4
1989	270.7	295.0	339.4	527.3	189.7	186.3	231.2
1990	266.5	301.0	366.9	523.5	241.2	176.9	223.2
1991	265.5	304.4	344.1	571.5	190.3	199.2	229.1
1992	247.5	301.4	335.6	567.6	246.4	239.2	244.8
1993	265.2	354.9	318.7	585.2	283.8	213.3	299.8
1994	239.3	297.7	308.7	576.3	270.8	192.5	259.6
1995	194.5	228.5	269.5	582.1	310.0	213.1	277.0
1996	173.8	188.7	228.3	473.3	298.2	217.3	327.6
1997	188.4	218.9	236.7	486.8	263.4	234.4	351.4
1998	175.5	244.3	253.9	523.9	324.9	249.2	398.8
1999	189.9	259.7	270.9	540.7	344.5	222.8	374.2
2000	195.4	308.8	311.9	566.5	559.7	272.9	380.5
2001	214.4	384.0	374.6	650.3	717.8	290.6	472.9
2002	218.6	314.2	339.7	636.5	782.5	320.4	548.6
2003	212.1	309.4	315.0	645.2	728.6	322.2	505.0
2004	273.0	336.6	378.4	710.5	766.5	349.6	539.5
2003							
March	203.9	309.6	310.8	647.2	833.5	297.5	434.0
June	185.5	256.7	307.6	640.4	735.7	311.5	493.4
September	213.7	292.6	308.0	633.1	697.6	330.2	535.3
December	245.2	309.4	333.8	660.1	647.6	349.5	557.4
2004							
March	245.5	287.8	363.9	705.8	604.9	348.1	507.9
June	265.8	336.6	386.5	727.2	882.9	347.0	592.8
September	298.1	386.6	380.5	711.3	804.0	356.1	511.1
December	282.7	342.6	382.7	697.6	774.0	347.2	546.4
2005							
March	279.0	325.6	372.7	718.7	420.3	351.4	609.0
June	284.6	335.3	385.8	706.7	500.7	375.5	623.0

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

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Meat and Livestock Australia, *Meat the Market*, Sydney.

155 Australian exports of meat, by product ^a

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

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

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

156 Summary of world statistics for livestock

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

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

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

157 Summary of US meat statistics

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

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

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

158 Summary of New Zealand meat statistics a

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

a October–September year. b At 30 June of first year shown. c Carcass weight. d Shipped weight. e Excludes meat withdrawn from export stocks for local consumption. na Not available.

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

159 Gross value of Australian livestock slaughterings

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

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

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

Sources: ABS; ABARE.

160 Australian supply and use of beef and veal

	Slaughterings a `000	Average weight b kg	Production b kt	Exports bc kt	Consumption bd kt
1960	4 403	168	740	na	na
1961	4 700	139	652	na	na
1962	5 672	145	820	na	na
1963	6 136	154	943	na	na
1964	6 554	153	1 005	na	na
1965	6 564	154	1 013	na	na
1966	6 231	152	946	na	na
1967	5 597	155	869	na	na
1968	5 508	165	907	na	na
1969	5 788	164	952	na	na
1970	5 727	176	1 011	510	na
1971	6 093	173	1 054	574	na
1972	7 491	159	1 192	780	na
1973	8 443	172	1 453	920	na
1974	6 988	184	1 282	530	na
1975	9 596	171	1 638	777	na
1976	11 434	166	1 899	905	917
1977	12 791	169	2 158	1 138	986
1978	12 345	173	2 131	1 199	937
1979	9 839	180	1 770	1 096	728
1980	8 833	174	1 534	883	663
1981	8 099	176	1 422	711	716
1982	9 460	177	1 678	942	754
1983	8 118	174	1 414	767	655
1984	6 824	186	1 272	581	695
1985	7 151	187	1 338	690	637
1986	7 883	188	1 481	809	668
1987	8 048	194	1 564	908	654
1988	7 723	201	1 551	890	665
1989	7 483	210	1 573	872	710
1990	8 253	211	1 738	1 064	676
1991	8 427	208	1 749	1 080	675
1992	8 731	210	1 834	1 191	645
1993	8 343	217	1 814	1 169	645
1994	8 366	221	1 845	1 164	692
1995	7 906	217	1 719	1 106	622
1996	7 968	218	1 734	1 028	711
1997	9 148	212	1 939	1 189	754
1998	9 308	213	1 987	1 278	711
1999	8 756	227	1 991	1 272	721
2000	8 734	235	2 053	1 329	726
2001	8 764	237	2 079	1 407	674
2002	9 050	231	2 090	1 362	729
2003	8 906	224	1 998	1 246	754
2004	8 803	240	2 113	1 395	724

a Includes calves. b Carcass weight. c Includes canned and miscellaneous product. d Apparent consumption. na Not available.

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

161 Australian cattle numbers, by state and territory ^a

	New South Wales '000	Victoria '000	Queensland '000	South Australia '000	Western Australia '000	Tasmania '000	Northern Territory '000	Australian Capital Territory '000	Australia '000
Adult female beef cattle									
1995	2 910	1 229	4 522	529	946	224	847	7	11 213
1996	2 963	1 287	4 775	534	934	233	848	7	11 667
1997	3 039	1 286	4 958	528	928	242	892	7	11 879
1998	2 863	1 119	5 145	540	964	232	915	5	11 783
1999	2 859	1 054	5 071	514	948	224	946	5	11 621
2000	2 801	1 134	5 667	480	1 086	194	913	6	12 282
2001	2 849	1 138	5 304	516	1 013	201	981	6	12 007
2002	2 852	1 158	5 762	594	1 013	199	1 069	6	12 652
2003	2 809	1 240	5 380	590	981	219	1 023	5	12 245
2004	2 873	1 185	5 638	568	1 049	233	1 019	5	12 570
2005	2 868	1 233	6 003	562	1 031	254	1 065	5	13 021
Total beef cattle and calves									
1995	5 867	2 659	9 689	1 064	1 773	507	1 419	13	22 991
1996	6 019	2 714	9 928	1 069	1 803	521	1 502	13	23 569
1997	6 118	2 627	10 130	1 024	1 787	515	1 609	13	23 737
1998	5 922	2 306	10 562	1 051	1 848	510	1 566	10	23 776
1999	5 846	2 180	10 444	1 006	1 817	491	1 566	9	22 820
2000	5 531	2 371	11 503	995	2 059	411	1 570	10	24 448
2001	5 786	2 435	11 088	1 050	2 001	426	1 707	11	24 504
2002	5 593	2 463	11 284	1 201	1 980	432	1 777	10	24 739
2003	5 419	2 491	10 507	1 209	1 815	482	1 683	8	23 615
2004	5 416	2 390	11 245	1 164	1 962	496	1 730	8	24 410
2005	5 428	2 505	11 511	1 107	1 889	534	1 756	9	24 739
Total dairy cattle and calves									
1995	370	1 621	285	152	126	185	1	0	2 740
1996	371	1 682	286	150	121	197	1	0	2 808
1997	393	1 784	292	157	122	211	0	0	2 958
1998	429	1 836	305	162	124	218	1	0	3 076
1999	445	1 945	304	177	114	233	1	0	3 218
2000	440	1 893	305	189	106	206	1	0	3 139
2001	428	1 971	288	192	126	210	0	0	3 217
2002	428	1 949	260	180	124	187	0	0	3 131
2003	398	1 896	233	191	130	200	0	0	3 049
2004	400	1 890	255	188	133	189	0	0	3 054
2005	405	1 897	223	159	118	187	0	0	2 988
Total cattle and calves									
1995	6 236	4 280	9 974	1 216	1 899	793	1 421	13	25 731
1996	6 390	4 396	10 214	1 219	1 924	718	1 503	14	26 377
1997	6 511	4 411	10 415	1 181	1 909	725	1 530	13	26 695
1998	6 351	4 142	10 867	1 214	1 973	728	1 567	10	26 851
1999	6 291	4 125	10 748	1 183	1 931	724	1 567	10	26 578
2000	5 970	4 264	11 808	1 184	2 165	617	1 571	10	27 588
2001	6 215	4 405	11 376	1 242	2 128	636	1 707	11	27 722
2002	6 021	4 412	11 544	1 381	2 104	619	1 777	10	27 870
2003	5 817	4 388	10 740	1 401	1 945	682	1 683	8	26 664
2004	5 816	4 281	11 500	1 352	2 095	684	1 730	8	27 465
2005	5 833	4 402	11 734	1 266	2 007	721	1 756	9	27 727

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

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

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

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

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

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

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

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

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

164 World cattle numbers, by country ^a

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

a As close as possible to 1 January. **b** Includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5 000 or more. **c** Excludes Hong Kong. **d** Regarded as fifteen countries to 1999, then twenty five countries from 2000.

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

165 World beef and veal production, by country ^a

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

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

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

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

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

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

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

167 Summary of Japanese beef and veal statistics

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

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

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

168 Summary of Korean beef and veal statistics

	Native cattle		Consumption		Average prices		
	numbers a '000	Production b kt	Imported beef	Total beef	Farm c won/kg	Wholesale d won/kg	Retail e won/kg
			and veal b '000	and veal b kt			
1970	1 284	na	na	37.3	na	na	658
1971	1 247	na	na	39.5	na	na	883
1972	1 333	na	0.3	40.2	na	na	1 013
1973	1 486	na	0.1	44.9	na	na	1 097
1974	1 778	na	0.0	51.5	na	na	1 315
1975	1 546	70.2	0.0	70.3	na	1 127	1 487
1976	1 451	74.8	1.0	75.5	na	1 707	2 123
1977	1 492	77.4	6.6	81.6	1 307	2 371	2 758
1978	1 624	74.3	2.2	114.7	1 712	2 729	3 460
1979	1 563	86.5	6.2	113.8	1 671	2 818	3 858
1980	1 390	93.3	10.6	100.0	1 963	3 577	4 820
1981	1 283	69.2	3.7	93.2	2 903	4 834	6 464
1982	1 526	61.4	4.5	106.5	3 539	5 437	7 432
1983	1 940	71.9	1.0	115.5	3 801	5 927	8 236
1984	2 318	90.8	1.8	106.6	3 577	5 723	8 316
1985	2 533	116.8	8.3	120.3	2 763	4 384	7 054
1986	2 370	150.8	3.6	147.9	2 487	3 875	6 234
1987	1 923	149.2	0.0	151.9	2 536	3 904	6 396
1988	1 589	126.6	14.2	141.5	3 511	5 500	8 276
1989	1 536	90.1	57.1	143.3	4 335	6 243	10 426
1990	1 622	94.9	81.9	177.0	4 811	6 629	11 450
1991	1 773	98.5	129.0	223.3	5 480	7 328	12 884
1992	2 019	99.6	127.3	226.9	6 007	7 634	14 170
1993	2 260	129.6	103.4	233.0	5 385	6 811	14 790
1994	2 393	147.3	122.5	269.8	5 835	7 244	15 438
1995	2 594	154.7	146.5	301.2	6 346	7 914	16 186
1996	2 844	173.7	149.2	322.9	5 696	6 971	16 236
1997	2 735	236.5	134.2	362.0	4 852	5 618	15 074
1998	2 383	264.1	85.4	345.5	4 014	5 438	13 822
1999	1 952	226.9	153.0	392.7	4 976	7 028	14 470
2000	1 590	214.1	190.0	402.4	5 504	7 414	17 418
2001	1 406	162.6	219.7	384.1	6 490	8 284	19 234
2002	1 410	147.4	255.3	402.7	7 854	9 127	29 478
2003	1 480	141.6	248.6	390.2	7 814	9 446	31 300
2004	1 666	144.9	182.9	327.8	7 094	8 703	30 392

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

Source: Republic of Korea National Livestock Co-operatives Federation, *Materials on Price, Demand and Supply of Livestock Products*, Seoul.

169 Australian supply and use of pig and poultry meats

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

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

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

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

	Australian								Australia
	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Northern Territory	Capital Territory	
	'000	'000	'000	'000	'000	'000	'000	'000	'000
1992	805	457	568	320	424	45	3	na	2 621
1993	823	434	622	307	438	45	3	na	2 673
1994	834	460	677	312	440	46	3	na	2 775
1995	791	439	644	316	423	38	3	na	2 653
1996	710	458	603	314	412	26	0	na	2 526
1997	729	485	600	297	417	24	2	na	2 555
1998	849	518	648	303	424	24	2	na	2 768
1999	778	521	621	277	406	22	2	na	2 626
2000	710	523	544	276	438	18	2	na	2 511
2001	845	557	597	286	438	22	2	na	2 748
2002	833	673	643	361	410	18	3	na	2 940
2003	729	555	663	381	309	19	3	na	2 658
2004	624	547	691	291	378	14	3	na	2 533
2005	653	545	696	358	274	14	3	na	2 543

a At 31 March. From 2000, at 30 June. Livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$5 000 or more. **na** Not available.

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

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

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

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

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

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

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

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

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

173 Australian supply and use of mutton and lamb

	Slaughtering '000	Average weight a kg	Production a kt	Exports ab kt	Apparent Consumption a kt
Mutton					
1981	12 726	19.4	246.4	188.4	51.0
1982	14 016	19.6	274.2	205.5	54.7
1983	9 719	19.1	186.0	144.8	66.8
1984	9 306	20.4	189.6	97.1	93.7
1985	11 742	20.1	236.4	125.6	110.4
1986	14 223	19.7	280.1	168.6	112.1
1987	15 314	19.7	302.4	164.6	131.7
1988	13 130	19.9	261.3	155.1	109.7
1989	13 698	20.6	282.6	158.1	123.0
1990	17 254	20.7	358.0	192.8	142.7
1991	18 750	21.0	394.6	248.6	160.4
1992	18 186	20.7	376.6	245.0	131.0
1993	18 047	21.5	387.9	240.8	143.0
1994	17 991	20.9	375.3	241.5	155.0
1995	15 228	20.5	312.1	213.7	96.3
1996	14 447	21.1	304.1	200.3	106.7
1997	15 552	20.5	319.6	215.8	106.5
1998	15 316	20.6	316.2	216.4	100.6
1999	14 723	21.0	309.8	224.6	78.7
2000	16 379	21.1	345.7	248.2	97.5
2001	15 789	20.6	325.5	239.5	86.0
2002	14 873	20.0	296.7	228.6	71.2
2003	10 522	20.3	213.7	163.1	51.1
2004	11 145	20.9	233.0	185.1	48.0
Lamb					
1981	16 179	16.8	272.5	38.5	234.4
1982	17 127	16.9	290.3	34.3	257.2
1983	16 804	16.9	283.7	33.5	251.2
1984	16 542	17.2	284.6	29.7	253.6
1985	18 759	17.1	319.9	42.9	277.2
1986	18 356	16.6	304.8	53.2	251.7
1987	17 516	16.9	296.8	53.3	244.6
1988	16 675	17.4	289.9	46.8	244.5
1989	16 864	17.8	299.6	43.9	255.0
1990	16 549	17.5	289.0	44.9	242.4
1991	15 818	17.3	274.3	45.0	229.7
1992	15 595	17.6	274.7	52.8	223.2
1993	14 668	17.6	258.7	60.4	196.2
1994	15 718	17.9	281.3	64.2	220.4
1995	14 680	17.9	263.0	57.0	205.8
1996	14 069	18.5	260.8	64.0	195.8
1997	14 924	18.8	279.9	76.0	203.9
1998	15 659	19.2	300.8	86.3	214.1
1999	16 346	19.5	318.8	95.4	222.7
2000	18 507	19.9	368.2	125.9	242.3
2001	17 897	19.7	352.6	126.1	226.5
2002	17 086	19.8	337.6	121.4	216.2
2003	16 430	20.1	329.8	125.9	203.9
2004	16 675	20.4	340.2	137.8	202.4

a Carcass weight. b Includes canned and miscellaneous product.

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

174 Australian sheep numbers, by state and territory ^a

	New South Wales million	Victoria million	Queensland million	South Australia million	Western Australia million	Tasmania million	Australian Capital Territory million	Australia million
Total sheep and lambs								
1985	51.418	26.471	14.042	17.263	31.574	4.780	0.118	145.497
1986	52.840	26.892	14.311	17.938	33.213	5.083	0.122	150.277
1987	53.726	27.793	14.926	17.645	33.741	5.246	0.105	149.055
1988	56.430	28.254	14.807	17.718	34.219	5.006	0.100	152.346
1989	59.907	29.387	15.184	17.779	37.335	5.196	0.119	161.492
1990	62.947	30.643	17.015	18.748	38.674	5.618	0.130	170.174
1991	60.572	28.789	17.796	17.513	36.707	5.059	0.128	163.238
1992	54.231	26.081	15.338	16.445	34.289	4.499	0.112	148.203
1993	48.906	24.430	13.495	16.009	33.195	4.403	0.106	138.099
1994	46.531	23.439	11.548	14.679	31.951	4.324	0.097	132.569
1995	40.515	21.371	11.577	13.249	30.217	3.853	0.078	120.862
1996	41.091	21.974	10.706	13.575	29.834	3.862	0.073	121.116
1997	42.388	22.325	10.528	13.106	27.821	3.977	0.084	120.228
1998	40.821	21.122	10.992	13.136	27.476	3.869	0.076	117.492
1999	40.583	20.944	10.556	13.065	28.378	3.801	0.080	115.377
2000	42.361	22.119	8.974	13.428	25.481	3.261	0.078	118.552
2001	40.966	23.012	9.121	13.125	23.849	3.292	0.096	110.900
2002	38.491	21.350	6.752	13.043	23.063	3.380	0.088	106.200
2003	33.706	20.388	4.815	13.059	23.887	3.299	0.098	99.253
2004	35.227	19.978	4.824	12.917	25.063	3.183	0.095	101.287
2005	35.570	20.525	4.690	12.386	26.149	3.253	0.009	102.663

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

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

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

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

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

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

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

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

177 World sheep numbers, by country ^a

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

^a Mostly at 1 December of year shown. Data for Australia are at 31 March. ^b Excludes Hong Kong. ^{na} Not available.

Sources: ABS, *Agriculture, Australia*, cat. no. 7113.0, Canberra; ABS, *Agricultural Commodities, Australia*, cat. no. 7121.0, Canberra; FAO, *FAOSTAT Agriculture Database*, Rome; US Department of Agriculture, *Livestock and Poultry: World Markets and Trade*, Foreign Agricultural Service Circular, Washington DC.

178 World mutton and lamb production, by country ^a

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

^a Carcass weight. ^b Excludes Hong Kong.

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

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

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

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

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

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

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

^a For October–September year. Shipped weight. ^b Regarded as twelve countries to 2002-03, then twenty five countries from 2003-04. ^{na} Not available.

Source: Meat and Wool New Zealand, *Annual Report*, Wellington.

181 Summary of Australian statistics for oilseeds ^a

	Area '000 ha	Yield t/ha	Production kt	Exports ^b kt	Domestic use ^c kt
1960-61	58	na	na	0	na
1961-62	43	0.70	30	0	30
1962-63	56	0.79	44	1	43
1963-64	74	0.80	59	6	53
1964-65	92	0.77	71	7	64
1965-66	58	0.76	44	0	44
1966-67	81	1.00	81	6	75
1967-68	93	0.63	59	9	50
1968-69	95	0.58	55	12	43
1969-70	112	1.38	155	6	149
1970-71	227	0.90	204	9	195
1971-72	508	0.73	371	103	268
1972-73	430	0.62	268	48	220
1973-74	288	0.89	258	17	241
1974-75	366	0.94	345	48	297
1975-76	276	0.88	243	82	161
1976-77	256	0.94	240	5	235
1977-78	400	1.04	416	8	408
1978-79	498	1.04	520	65	455
1979-80	480	1.01	484	141	343
1980-81	390	1.15	450	6	444
1981-82	404	1.26	509	26	483
1982-83	381	0.92	349	3	346
1983-84	524	1.05	549	20	529
1984-85	704	1.31	925	51	874
1985-86	675	1.29	872	183	689
1986-87	545	1.30	708	125	583
1987-88	624	1.37	856	91	765
1988-89	565	1.48	838	217	621
1989-90	456	1.67	763	172	591
1990-91	595	1.75	1 040	187	853
1991-92	631	1.80	1 136	231	905
1992-93	537	1.61	864	241	623
1993-94	700	1.51	1 055	287	769
1994-95	799	1.15	920	252	668
1995-96	847	1.58	1 342	523	819
1996-97	1 040	1.71	1 776	523	1 253
1997-98	1 291	1.54	1 987	908	1 079
1998-99	2 114	1.47	3 106	1 707	1 399
1999-00	2 657	1.46	3 870	2 445	1 426
2000-01	2 133	1.45	3 094	2 189	905
2001-02	1 870	1.60	2 990	1 920	1 070
2002-03	1 618	0.95	1 532	887	645
2003-04	1 544	1.56	2 409	1 234	1 175
2004-05	1 592	1.66	2 642	1 261	1 381

^a Oilseeds are comprised of canola, cottonseed, linseed, peanuts, safflowerseed, soybeans and sunflowerseed. ^b Seed only. On a financial year basis. ^c Includes any imports of seed, stocks carried over to the next season, feed and seed use, and any processing, of which some may be exported. **na** Not available.

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

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Canola								
Area								
1998-99	'000 ha	371.8	205.0	0.7	536.5	132.4	0.8	1 247.2
1999-00	'000 ha	515.5	304.1	0.9	878.8	210.3	1.1	1 910.6
2000-01	'000 ha	523.4	260.7	2.7	517.3	154.3	0.8	1 459.1
2001-02	'000 ha	533.7	238.5	1.3	393.9	163.7	0.5	1 331.5
2002-03	'000 ha	490.0	248.0	0.0	349.0	210.0	0.5	1 298.0
2003-04	'000 ha	366.0	239.0	0.0	358.0	247.0	0.0	1 211.0
2004-05	'000 ha	280.0	245.0	1.0	420.0	194.0	1.3	1 141.3
Yield								
1998-99	t/ha	1.7	1.3	1.1	1.1	1.5	1.4	1.4
1999-00	t/ha	1.6	1.4	1.1	1.1	1.2	1.6	1.3
2000-01	t/ha	1.6	1.5	0.5	0.7	1.3	1.7	1.2
2001-02	t/ha	1.3	1.5	1.2	1.1	1.7	1.8	1.3
2002-03	t/ha	0.4	0.7	0.0	0.9	1.0	1.8	0.7
2003-04	t/ha	1.2	1.6	0.0	1.5	1.4	0.0	1.4
2004-05	t/ha	1.5	1.6	1.0	1.2	1.2	0.8	1.3
Production								
1998-99	kt	623.1	257.4	0.8	614.8	193.1	1.2	1 690.5
1999-00	kt	826.8	423.3	1.0	963.2	243.9	1.7	2 459.9
2000-01	kt	835.7	379.7	1.3	352.5	204.4	1.3	1 775.0
2001-02	kt	715.3	347.4	1.5	418.7	272.1	1.0	1 755.9
2002-03	kt	184.0	177.0	0.0	299.0	210.0	0.8	871.0
2003-04	kt	438.0	384.0	0.0	527.0	354.0	0.0	1 703.0
2004-05	kt	420.0	395.0	1.0	490.0	226.0	1.0	1 533.0
Cottonseed								
Area								
1998-99	'000 ha	381.7	0.0	179.9	0.0	0.0	0.0	561.5
1999-00	'000 ha	313.0	0.0	151.3	0.0	0.0	0.0	464.3
2000-01	'000 ha	327.9	0.0	199.4	0.0	0.0	0.0	527.3
2001-02	'000 ha	289.7	0.0	119.3	0.0	0.0	0.0	409.0
2002-03	'000 ha	165.2	0.0	59.3	0.0	0.0	0.0	224.5
2003-04	'000 ha	97.2	0.0	100.8	0.0	0.0	0.0	198.1
2004-05	'000 ha	162.8	0.0	158.1	0.0	0.0	0.0	320.9
Yield								
1998-99	t/ha	1.8	0.0	1.9	0.0	0.0	0.0	1.8
1999-00	t/ha	2.2	0.0	2.3	0.0	0.0	0.0	2.3
2000-01	t/ha	2.3	0.0	2.0	0.0	0.0	0.0	2.2
2001-02	t/ha	2.7	0.0	2.3	0.0	0.0	0.0	2.6
2002-03	t/ha	2.6	0.0	2.0	0.0	0.0	0.0	2.4
2003-04	t/ha	2.6	0.0	2.4	0.0	0.0	0.0	2.5
2004-05	t/ha	3.0	0.0	2.7	0.0	0.0	0.0	2.8
Production								
1998-99	kt	677.5	0.0	346.9	0.0	0.0	0.0	1 024.4
1999-00	kt	695.7	0.0	350.4	0.0	0.0	0.0	1 046.2
2000-01	kt	740.5	0.0	399.5	0.0	0.0	0.0	1 140.0
2001-02	kt	777.1	0.0	276.4	0.0	0.0	0.0	1 053.5
2002-03	kt	425.3	0.0	120.5	0.0	0.0	0.0	545.8
2003-04	kt	254.2	0.0	239.6	0.0	0.0	0.0	493.7
2004-05	kt	491.8	0.0	420.5	0.0	0.0	0.0	912.3

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Sunflowerseed								
Area								
1998-99	'000 ha	79.4	0.0	113.3	0.3	1.5	0.0	194.6
1999-00	'000 ha	41.2	0.4	119.5	0.1	0.3	0.0	161.5
2000-01	'000 ha	17.6	0.2	64.3	0.0	0.2	0.0	82.3
2001-02	'000 ha	30.1	0.1	48.0	0.0	0.6	0.0	78.8
2002-03	'000 ha	14.0	0.0	25.5	0.0	0.0	0.0	39.5
2003-04	'000 ha	21.2	0.0	25.0	0.0	0.0	0.0	46.2
2004-05	'000 ha	29.0	0.0	17.0	0.0	0.0	0.0	46.0
Yield								
1998-99	t/ha	1.3	0.0	1.0	0.5	0.0	0.0	1.1
1999-00	t/ha	1.5	0.8	0.9	0.8	1.2	0.0	1.1
2000-01	t/ha	1.1	0.9	0.9	0.0	2.0	0.0	0.9
2001-02	t/ha	1.2	1.1	0.7	0.0	0.3	0.0	0.9
2002-03	t/ha	0.8	0.0	0.5	0.0	0.0	0.0	0.6
2003-04	t/ha	1.5	0.0	1.1	0.0	0.0	0.0	1.3
2004-05	t/ha	1.6	0.0	0.9	0.0	0.0	0.0	1.3
Production								
1998-99	kt	103.3	0.0	114.9	0.2	0.0	0.0	218.4
1999-00	kt	61.2	0.3	107.8	0.1	0.4	0.0	169.8
2000-01	kt	20.0	0.2	57.0	0.0	0.3	0.0	77.5
2001-02	kt	36.0	0.1	33.2	0.0	0.2	0.0	69.6
2002-03	kt	11.5	0.0	13.0	0.0	0.0	0.0	24.5
2003-04	kt	31.7	0.0	26.3	0.0	0.0	0.0	58.0
2004-05	kt	47.0	0.0	15.0	0.0	0.0	0.0	62.0
Peanuts								
Area								
1998-99	'000 ha	0.6	0.0	20.2	0.1	0.0	0.0	21.0
1999-00	'000 ha	0.4	0.0	19.6	0.1	0.0	0.0	20.2
2000-01	'000 ha	0.5	0.0	16.7	0.1	0.0	0.0	17.4
2001-02	'000 ha	0.5	0.0	14.0	0.1	0.0	0.0	14.7
2002-03	'000 ha	0.5	0.0	10.0	0.1	0.0	0.0	10.8
2003-04	'000 ha	0.8	0.0	13.0	0.0	0.0	0.0	14.0
2004-05	'000 ha	0.5	0.0	24.2	0.0	0.0	0.0	25.0
Yield								
1998-99	t/ha	0.8	0.0	1.9	1.6	0.0	0.0	1.8
1999-00	t/ha	2.1	0.0	2.2	1.6	0.0	0.0	2.2
2000-01	t/ha	1.1	0.0	2.1	1.6	0.0	0.0	2.0
2001-02	t/ha	1.3	0.0	2.5	1.6	0.0	0.0	2.5
2002-03	t/ha	1.4	0.0	3.6	2.0	0.0	0.0	3.4
2003-04	t/ha	1.3	0.0	3.2	0.0	0.0	0.0	3.1
2004-05	t/ha	2.0	0.0	1.7	0.0	0.0	0.0	1.7
Production								
1998-99	kt	0.5	0.0	38.0	0.2	0.0	0.0	38.6
1999-00	kt	0.8	0.0	42.6	0.2	0.0	0.0	43.5
2000-01	kt	0.6	0.0	34.3	0.2	0.0	0.0	35.1
2001-02	kt	0.7	0.0	35.7	0.2	0.0	0.0	36.6
2002-03	kt	0.7	0.0	36.1	0.2	0.0	0.0	37.0
2003-04	kt	1.0	0.0	42.0	0.0	0.0	0.0	44.0
2004-05	kt	1.0	0.0	41.8	0.0	0.0	0.0	43.0

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia
Safflowerseed								
Area								
1998-99	'000 ha	13.2	11.7	5.9	0.0	3.5	0.0	34.2
1999-00	'000 ha	24.6	13.6	0.5	0.0	5.4	0.0	44.2
2000-01	'000 ha	7.4	3.9	0.6	0.0	2.2	0.0	14.0
2001-02	'000 ha	0.6	1.9	0.0	0.0	1.1	0.0	3.6
2002-03	'000 ha	12.0	14.4	4.0	0.0	4.6	0.0	35.0
2003-04	'000 ha	15.0	17.0	2.7	1.5	5.3	0.0	41.5
2004-05	'000 ha	10.6	15.0	2.0	1.5	3.0	0.0	32.1
Yield								
1998-99	t/ha	0.5	0.4	0.6	0.0	0.6	0.0	0.5
1999-00	t/ha	0.8	0.8	0.6	0.0	0.9	0.0	0.8
2000-01	t/ha	0.7	0.5	0.8	0.0	0.6	0.0	0.6
2001-02	t/ha	0.3	0.4	0.0	0.0	0.8	0.0	0.5
2002-03	t/ha	1.0	0.7	0.3	0.0	0.8	0.0	0.7
2003-04	t/ha	0.9	0.5	0.5	0.0	0.7	0.0	0.7
2004-05	t/ha	1.3	0.5	0.8	0.0	1.2	0.0	0.8
Production								
1998-99	kt	6.8	4.9	3.3	0.0	2.0	0.0	17.1
1999-00	kt	20.6	10.8	0.3	0.0	5.0	0.0	36.7
2000-01	kt	5.2	2.0	0.5	0.0	1.3	0.0	9.0
2001-02	kt	0.2	0.8	0.0	0.0	0.9	0.0	1.9
2002-03	kt	11.6	9.4	1.2	0.0	3.8	0.0	26.0
2003-04	kt	13.6	9.2	1.4	0.0	3.8	0.0	28.0
2004-05	kt	13.5	7.1	1.7	0.0	3.7	0.0	26.0
Soybeans								
Area								
1998-99	'000 ha	29.5	1.4	24.2	0.0	0.0	0.0	55.1
1999-00	'000 ha	32.0	1.4	22.4	0.0	0.0	0.0	55.8
2000-01	'000 ha	20.8	0.8	11.6	0.0	0.0	0.0	33.3
2001-02	'000 ha	21.1	0.4	10.9	0.0	0.0	0.0	32.4
2002-03	'000 ha	7.3	0.1	3.0	0.0	0.0	0.0	10.3
2003-04	'000 ha	17.8	0.5	15.1	0.0	0.0	0.0	33.4
2004-05	'000 ha	17.0	1.2	8.0	0.0	0.0	0.0	26.2
Yield								
1998-99	t/ha	2.0	2.4	1.9	0.0	0.0	0.0	1.9
1999-00	t/ha	1.8	2.2	1.9	0.0	0.0	0.0	1.9
2000-01	t/ha	1.6	1.7	1.2	0.0	0.0	0.0	1.5
2001-02	t/ha	2.1	1.7	1.6	0.0	0.0	0.0	1.9
2002-03	t/ha	1.8	2.5	1.7	0.0	0.0	0.0	1.8
2003-04	t/ha	2.3	1.5	2.2	0.0	0.0	0.0	2.2
2004-05	t/ha	2.3	1.4	1.9	0.0	0.0	0.0	2.1
Production								
1998-99	kt	57.9	3.3	46.0	0.0	0.0	0.0	107.2
1999-00	kt	59.1	3.2	41.7	0.0	0.0	0.0	104.0
2000-01	kt	32.8	1.4	14.4	0.0	0.0	0.0	48.6
2001-02	kt	44.6	0.7	17.8	0.0	0.0	0.0	63.1
2002-03	kt	13.2	0.1	4.9	0.0	0.0	0.0	18.3
2003-04	kt	40.1	0.8	32.7	0.0	0.0	0.0	73.7
2004-05	kt	39.0	1.7	15.0	0.0	0.0	0.0	55.7

Continued

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

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

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

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

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

a Excludes sesame seed and other oleaginous fruit. **b** Includes flour, meal of oilseeds, and oleaginous fruit. Excludes peanut meal.
Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; ABARE.

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

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

a Excludes sesame seed and other oleaginous fruit.

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

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

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

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

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

186 Summary of world statistics for oilseeds ^a

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

^a October–September years, except where otherwise noted. Oilseeds comprise canola, copra, cottonseed, palm kernels, peanuts, soybeans and sunflowerseed. ^b Consumption, includes losses etc. ^c Stocks are indicative for the year in question. Soybeans: United States, Brazil, Argentina; cottonseed: United States; peanuts: United States, China; sunflowerseed: United States, Argentina; canola: Canada; copra: the Philippines; palm kernels: Malaysia. ^d US soybeans, cif Rotterdam, marketing year October–September. **na** Not available.

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

187 World oilseeds production, by country ^a

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

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

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

188 World oilseeds production, by type

	Castor- seed kt	Copra kt	Cotton- seed kt	Linseed kt	Palm kernels kt	Peanuts kt	Rape- seed a kt	Sesame seed kt	Soybeans kt	Sunflower- seed kt
1960-61	595	3 390	18 064	3 245	927	9 049	3 702	1 183	23 551	6 056
1961-62	570	3 079	17 767	3 265	795	9 537	3 556	1 413	26 945	7 085
1962-63	590	3 156	18 772	3 625	807	9 749	3 734	1 516	27 016	6 795
1963-64	675	3 423	20 163	3 525	823	10 611	2 924	1 546	28 121	6 466
1964-65	811	3 375	21 411	3 700	862	11 625	4 503	1 741	29 238	8 580
1965-66	784	3 528	22 085	3 675	847	10 956	5 042	1 572	31 700	8 110
1966-67	853	3 285	20 635	3 273	703	11 087	4 664	1 544	36 468	9 410
1967-68	909	3 335	20 163	2 738	762	11 849	5 724	1 727	37 773	9 791
1968-69	888	3 228	22 588	3 155	808	11 001	5 379	1 572	41 698	9 685
1969-70	866	3 203	20 148	3 995	885	10 705	5 264	1 624	42 478	10 155
1970-71	814	3 693	19 675	4 420	939	11 346	7 078	1 984	44 269	9 790
1971-72	854	4 291	21 631	3 024	906	11 777	7 661	1 827	47 184	10 019
1972-73	807	3 732	22 400	2 579	859	14 421	7 257	1 776	49 189	9 685
1973-74	997	3 204	22 862	2 763	993	16 251	7 098	1 873	62 377	12 175
1974-75	1 101	4 385	22 985	2 625	1 049	16 651	7 805	1 770	54 605	10 725
1975-76	800	5 020	19 888	2 873	1 078	18 468	8 385	1 671	65 543	9 959
1976-77	694	4 571	20 064	2 580	1 122	16 378	7 116	1 657	59 361	10 130
1977-78	773	4 745	22 685	3 392	1 157	16 735	7 820	1 779	72 114	12 822
1978-79	907	4 132	21 458	2 740	1 285	17 711	10 624	1 854	77 368	12 711
1979-80	875	4 287	23 248	3 089	1 415	17 183	9 933	1 852	93 339	15 162
1980-81	782	4 757	23 455	2 526	1 436	16 040	11 035	1 713	80 873	13 090
1981-82	914	4 508	26 348	2 459	1 708	19 581	12 253	2 069	86 050	14 664
1982-83	924	4 392	25 755	3 001	1 767	17 205	14 703	1 769	93 441	16 530
1983-84	970	3 693	24 211	2 640	1 975	18 510	14 259	1 951	83 092	15 328
1984-85	1 070	4 592	32 816	2 790	2 188	19 449	16 895	1 970	93 040	17 776
1985-86	1 180	5 231	29 415	3 010	2 467	19 784	18 536	1 960	96 958	19 331
1986-87	1 050	4 625	26 281	3 290	2 453	20 159	19 283	2 270	97 961	19 043
1987-88	830	4 299	30 206	2 790	2 609	20 656	23 192	2 230	103 310	20 674
1988-89	1 010	4 265	31 382	2 300	2 858	22 657	22 513	2 210	95 802	20 003
1989-90	1 110	5 022	29 785	2 450	3 256	21 670	21 891	2 140	107 148	21 584
1990-91	1 350	4 684	32 266	2 880	3 255	21 799	25 056	2 070	104 246	22 635
1991-92	1 170	4 665	35 492	2 460	3 343	21 974	28 223	2 350	107 298	21 684
1992-93	1 140	4 838	30 797	1 966	3 910	23 093	25 285	2 190	117 379	21 174
1993-94	1 100	4 890	28 929	2 181	4 137	24 318	26 664	2 300	117 772	20 621
1994-95	1 210	5 533	32 307	2 464	4 522	27 468	30 240	2 321	137 716	23 331
1995-96	1 210	5 136	35 136	2 539	4 868	27 665	34 364	2 540	125 033	25 742
1996-97	1 116	6 053	3 373	3 369	5 211	29 059	31 489	2 821	132 349	23 800
1997-98	1 181	5 412	34 370	2 371	5 050	27 561	33 161	2 652	158 191	23 258
1998-99	1 168	4 391	32 592	2 828	5 624	29 951	35 812	2 617	160 045	26 611
1999-00	1 261	5 434	33 060	2 868	6 418	29 417	42 483	2 704	160 669	27 263
2000-01	1 353	5 767	33 585	2 359	7 038	31 426	37 408	2 870	175 878	23 182
2001-02	1 043	5 213	36 763	2 159	7 203	33 809	36 030	3 236	185 089	21 369
2002-03	959	5 110	32 958	2 090	7 777	30 816	32 902	3 011	197 033	23 957
2003-04	1 114	5 371	35 827	2 262	8 451	32 611	39 342	3 250	186 257	26 680
2004-05	1 330	5 385	45 545	2 043	9 286	33 142	46 518	3 210	213 340	25 771

a Predominantly canola since the late 1980s.

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

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

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

a Imports may not equal exports in any given period as a result of lags in shipping time. **b** Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00; excludes intra-EU trade. **c** Regarded as fifteen countries for all years, excludes intra-EU trade. **d** Cottonseed, palm kernels and peanuts.

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

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

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

a Imports may not equal exports in any given period, as a result of lags in shipping time. **b** Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00; includes intra-EU trade. **c** Canola, cottonseed, palm kernel and sunflowerseed. **d** Canola, copra, cottonseed, palm kernel and sunflowerseed.

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

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

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

^a Imports may not equal exports in any given period, as a result of lags in shipping time. ^b Regarded as fifteen countries to 1998-99 then twenty five countries from 1999-00; excludes intra-EU trade. ^c Cottonseed, olive, palm kernel and peanut.

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

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

	Canola ^b	Palm oil ^c	Soybeans ^d	Soybean meal ^e	Soybean oil ^f
	US\$/t	US\$/t	US\$/t	US\$/t	US\$/t
1974-75	na	na	249.0	163.0	616.0
1975-76	na	na	215.0	169.0	418.0
1976-77	na	na	288.0	237.0	570.0
1977-78	na	na	259.0	205.0	581.0
1978-79	na	na	295.0	238.0	655.0
1979-80	na	na	278.0	242.0	609.0
1980-81	308.0	na	310.0	273.0	545.0
1981-82	292.0	na	253.0	225.0	463.0
1982-83	303.0	406.0	260.0	224.0	463.0
1983-84	351.0	767.0	301.1	221.0	722.0
1984-85	303.0	569.0	223.0	155.0	625.0
1985-86	239.0	274.0	210.8	183.0	377.0
1986-87	180.0	310.0	208.7	191.0	324.0
1987-88	222.0	402.0	282.3	254.0	443.0
1988-89	218.5	357.7	292.3	262.8	435.0
1989-90	213.3	270.8	246.9	204.3	437.5
1990-91	199.3	317.6	241.4	198.3	454.4
1991-92	203.8	365.2	237.4	202.8	437.3
1992-93	234.1	382.3	246.2	207.3	453.3
1993-94	284.3	445.6	258.8	201.5	580.2
1994-95	288.9	659.7	247.6	183.6	641.8
1995-96	297.6	523.3	304.4	256.3	574.9
1996-97	284.4	525.1	304.2	277.7	535.6
1997-98	296.1	604.7	257.4	196.8	633.4
1998-99	227.3	484.0	209.3	149.7	482.9
1999-00	190.1	315.3	209.8	179.7	355.0
2000-01	202.0	243.8	200.9	187.9	336.0
2001-02	220.4	340.6	200.2	174.3	412.0
2002-03	284.0	420.0	242.8	191.0	537.0
2003-04	317.0	481.0	322.6	258.0	633.0
2004-05	262.0	392.0	275.3	212.0	545.0

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

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

193 Summary of Australian statistics for pulses

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

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

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

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Lupins							
Area							
1998-99	'000 ha	106.0	42.0	0.0	1 180.0	79.0	1 407.0
1999-00	'000 ha	135.0	35.0	0.0	1 104.0	73.0	1 347.0
2000-01	'000 ha	92.0	34.0	0.0	987.0	67.0	1 180.0
2001-02	'000 ha	106.0	33.0	0.0	920.0	80.0	1 139.0
2002-03	'000 ha	100.0	40.0	0.0	795.0	89.0	1 024.5
2003-04	'000 ha	69.0	28.0	0.0	667.0	86.0	851.0
2004-05	'000 ha	45.0	25.3	0.0	530.0	63.0	663.3
Yield							
1998-99	t/ha	1.65	1.10	0.00	1.16	1.29	1.21
1999-00	t/ha	1.78	1.29	0.00	1.45	1.10	1.46
2000-01	t/ha	1.38	1.38	0.00	0.79	1.46	0.89
2001-02	t/ha	1.16	1.24	0.00	0.98	1.84	1.07
2002-03	t/ha	0.37	0.28	0.00	0.74	1.01	0.71
2003-04	t/ha	0.81	1.14	0.00	1.45	1.42	1.39
2004-05	t/ha	1.44	1.03	0.00	1.42	0.79	1.34
Production							
1998-99	kt	175.0	46.0	0.0	1 372.0	102.0	1 696.0
1999-00	kt	240.0	45.0	0.0	1 603.0	80.0	1 968.0
2000-01	kt	127.0	47.0	0.0	783.0	98.0	1 055.0
2001-02	kt	123.0	41.0	0.0	904.0	147.0	1 215.0
2002-03	kt	37.0	11.0	0.0	587.0	90.0	725.5
2003-04	kt	56.0	32.0	0.0	969.0	122.0	1 180.0
2004-05	kt	65.0	26.0	0.0	750.0	50.0	891.0
Field peas							
Area							
1998-99	'000 ha	24.0	149.0	2.0	49.0	145.0	370.0
1999-00	'000 ha	25.0	174.0	0.0	62.0	161.0	423.0
2000-01	'000 ha	24.0	146.0	1.0	90.0	135.0	397.0
2001-02	'000 ha	15.0	125.0	0.0	70.0	126.0	337.0
2002-03	'000 ha	19.0	132.0	0.0	71.2	157.0	380.0
2003-04	'000 ha	22.0	110.0	0.0	65.0	157.0	354.0
2004-05	'000 ha	32.0	83.0	0.0	81.0	124.5	320.5
Yield							
1998-99	t/ha	1.18	0.62	0.00	0.82	1.43	1.00
1999-00	t/ha	1.20	1.23	0.00	1.13	1.12	1.17
2000-01	t/ha	1.04	1.16	0.00	0.49	1.60	1.15
2001-02	t/ha	1.13	1.22	0.00	1.17	2.06	1.52
2002-03	t/ha	0.32	0.16	0.00	0.34	0.80	0.47
2003-04	t/ha	0.86	1.07	0.00	1.58	1.57	1.38
2004-05	t/ha	1.16	0.75	0.00	1.25	0.97	1.00
Production							
1998-99	kt	28.2	93.0	0.0	40.0	208.0	370.2
1999-00	kt	30.0	214.0	0.0	70.0	181.0	496.1
2000-01	kt	25.0	170.0	0.0	44.0	216.0	456.0
2001-02	kt	17.0	153.0	0.0	82.0	259.0	512.0
2002-03	kt	6.0	21.0	0.0	24.0	126.0	178.0
2003-04	kt	19.0	118.0	0.0	103.0	246.0	487.0
2004-05	kt	37.0	62.0	0.0	101.0	120.8	320.8

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia a
Chickpeas							
Area							
1998-99	'000 ha	74.7	125.9	41.5	50.9	15.5	308.5
1999-00	'000 ha	66.3	27.8	46.2	71.5	6.2	218.0
2000-01	'000 ha	124.5	8.0	71.0	57.0	1.1	261.5
2001-02	'000 ha	116.0	16.0	46.0	16.0	1.0	195.0
2002-03	'000 ha	71.0	9.0	111.0	6.0	3.5	201.0
2003-04	'000 ha	61.0	5.5	76.0	6.0	3.0	151.5
2004-05	'000 ha	63.0	4.0	41.0	4.0	1.3	113.3
Yield							
1998-99	t/ha	0.71	0.35	0.82	0.84	0.87	0.61
1999-00	t/ha	1.29	0.82	0.99	0.99	0.79	1.05
2000-01	t/ha	0.65	0.95	0.79	0.31	0.74	0.62
2001-02	t/ha	1.39	1.47	1.33	0.69	1.00	1.32
2002-03	t/ha	0.71	0.03	0.73	0.25	0.77	0.68
2003-04	t/ha	1.20	1.09	1.20	0.83	1.00	1.17
2004-05	t/ha	1.37	1.00	0.51	0.88	0.88	1.02
Production							
1998-99	kt	52.8	44.6	33.8	42.9	13.4	187.6
1999-00	kt	85.6	22.8	45.9	70.7	4.9	229.9
2000-01	kt	80.3	7.6	56.0	17.8	0.8	162.4
2001-02	kt	161.5	23.5	61.0	11.0	1.0	258.0
2002-03	kt	50.5	0.3	81.0	1.5	2.7	136.0
2003-04	kt	73.0	6.0	91.0	5.0	3.0	178.0
2004-05	kt	86.0	4.0	21.0	3.5	1.1	115.6
Faba beans							
Area							
1998-99	'000 ha	25.6	42.0	4.1	18.0	45.7	135.3
1999-00	'000 ha	16.8	55.1	0.0	16.2	58.7	146.8
2000-01	'000 ha	44.1	67.0	2.3	13.4	79.5	206.3
2001-02	'000 ha	37.0	55.0	0.0	13.0	75.0	180.0
2002-03	'000 ha	17.0	50.0	0.0	7.0	83.0	157.0
2003-04	'000 ha	15.0	50.0	0.0	7.0	83.0	155.0
2004-05	'000 ha	40.0	60.0	0.0	7.5	87.0	194.5
Yield							
1998-99	t/ha	1.03	1.44	0.68	0.88	1.95	1.44
1999-00	t/ha	1.98	1.39	0.00	1.19	1.65	1.54
2000-01	t/ha	1.38	1.55	0.88	0.52	1.90	1.57
2001-02	t/ha	1.89	1.73	0.00	0.77	2.33	1.94
2002-03	t/ha	1.06	0.10	0.00	0.29	1.00	0.69
2003-04	t/ha	1.13	1.80	0.00	1.43	1.93	1.79
2004-05	t/ha	1.75	0.33	0.00	1.00	0.80	0.86
Production							
1998-99	kt	26.2	60.3	2.8	15.8	89.0	194.3
1999-00	kt	33.2	76.8	0.0	19.3	97.1	226.4
2000-01	kt	60.7	104.2	2.0	7.0	151.0	324.9
2001-02	kt	70.0	95.0	0.0	10.0	175.0	350.0
2002-03	kt	18.0	5.0	0.0	2.0	83.0	108.0
2003-04	kt	17.0	90.0	0.0	10.0	160.0	277.0
2004-05	kt	70.0	20.0	0.0	7.5	70.0	167.5

Continued

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

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Australia ^a
Mung beans							
Area							
1998-99	'000 ha	32.8	0.0	69.6	0.0	0.0	102.3
1999-00	'000 ha	20.0	0.0	28.0	0.0	0.0	48.0
2000-01	'000 ha	33.0	1.0	53.6	0.0	0.0	87.9
2001-02	'000 ha	18.0	0.0	25.0	0.0	0.0	43.0
2002-03	'000 ha	20.0	0.0	24.0	0.0	0.0	44.0
2003-04	'000 ha	18.0	0.0	26.0	0.0	0.0	44.1
2004-05	'000 ha	25.0	0.0	25.0	0.0	0.0	49.8
Yield							
1998-99	t/ha	0.67	0.00	0.81	0.00	0.00	0.76
1999-00	t/ha	0.90	0.00	0.83	0.00	0.00	0.86
2000-01	t/ha	0.62	0.00	0.57	0.00	0.00	0.59
2001-02	t/ha	1.00	0.00	1.00	0.00	0.00	1.00
2002-03	t/ha	0.59	0.00	0.91	0.00	0.00	0.76
2003-04	t/ha	1.11	0.00	1.05	0.00	0.00	1.07
2004-05	t/ha	0.87	0.00	1.25	0.00	0.00	1.07
Production							
1998-99	kt	21.9	0.0	56.3	0.0	0.0	78.1
1999-00	kt	18.1	0.0	23.2	0.0	0.0	41.3
2000-01	kt	20.5	0.0	30.7	0.0	0.0	51.9
2001-02	kt	18.0	0.0	25.0	0.0	0.0	43.0
2002-03	kt	11.7	0.0	21.9	0.0	0.0	33.6
2003-04	kt	20.0	0.0	27.3	0.0	0.0	47.3
2004-05	kt	21.7	0.0	31.2	0.0	0.0	53.2
Total pulses ^b							
Area							
1998-99	'000 ha	263.5	379.3	117.1	1 299.7	327.2	2 387.8
1999-00	'000 ha	265.1	306.9	74.2	1 263.7	333.9	2 244.8
2000-01	'000 ha	317.6	266.0	127.9	1 149.4	307.6	2 169.8
2001-02	'000 ha	293.0	239.0	71.0	1 022.0	302.0	1 928.0
2002-03	'000 ha	227.0	231.0	135.0	879.2	332.5	1 869.3
2003-04	'000 ha	185.5	196.0	102.0	745.5	339.0	1 569.1
2004-05	'000 ha	207.0	174.8	66.0	623.5	299.8	1 370.8
Yield							
1998-99	t/ha	1.16	0.65	0.79	1.13	1.31	1.07
1999-00	t/ha	1.54	1.22	0.93	1.40	1.17	1.34
2000-01	t/ha	0.99	1.27	0.69	0.74	1.57	0.96
2001-02	t/ha	1.33	1.35	1.21	0.99	1.98	1.25
2002-03	t/ha	0.54	0.16	0.76	0.70	0.91	0.66
2003-04	t/ha	1.00	1.26	1.16	1.46	1.57	1.42
2004-05	t/ha	1.36	0.66	0.79	1.39	0.91	1.16
Production							
1998-99	kt	304.4	248.2	92.9	1 472.3	428.5	2 548.5
1999-00	kt	408.9	373.6	69.1	1 771.0	391.3	3 015.0
2000-01	kt	313.5	337.8	88.7	853.8	482.8	2 078.3
2001-02	kt	390.5	322.5	86.0	1 008.0	597.0	2 408.0
2002-03	kt	123.2	37.3	102.9	614.5	301.7	1 229.6
2003-04	kt	185.0	246.0	118.3	1 087.0	531.0	2 222.2
2004-05	kt	281.7	116.0	52.2	864.0	271.9	1 586.1

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

195 World pulses production, by region and country

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

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

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

196 Volume of world pulses trade, by region and country

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

Continued

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

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

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

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

197 Summary of Australian statistics for rice ^a

	Area '000 ha	Yield ^b t/ha	Production		Exports		Apparent consumption ^f kt
			Volume ^b kt	Unit value ^c \$/t	Volume ^d kt	Unit value ^e \$/t	
1960-61	18.7	6.1	114.3	72.2	60.3	107.8	17.2
1961-62	20.3	6.6	134.2	57.1	50.8	114.2	17.5
1962-63	22.2	6.1	135.8	56.5	56.8	121.5	17.9
1963-64	24.0	5.9	142.0	55.7	56.1	130.1	18.2
1964-65	24.9	6.1	153.0	55.8	64.2	124.6	21.3
1965-66	26.1	7.0	181.7	56.3	63.9	126.8	25.2
1966-67	29.8	7.2	214.3	58.1	89.2	128.9	27.5
1967-68	30.7	7.0	214.5	59.8	99.0	141.4	28.2
1968-69	33.7	7.4	248.2	57.8	107.0	146.7	29.1
1969-70	40.2	6.1	247.0	58.8	120.7	141.7	30.2
1970-71	40.7	7.4	299.8	45.8	95.9	137.6	32.6
1971-72	40.5	6.1	248.4	48.1	169.3	114.6	33.1
1972-73	45.2	6.8	308.6	81.0	152.0	139.5	29.0
1973-74	67.5	6.1	408.8	123.4	124.8	229.2	27.4
1974-75	75.6	5.1	386.7	92.8	159.8	268.5	32.2
1975-76	74.8	5.6	417.0	98.8	215.2	238.8	33.5
1976-77	92.0	5.8	529.8	112.0	254.4	224.4	33.3
1977-78	91.4	5.4	490.3	124.6	273.2	241.9	34.8
1978-79	110.2	6.3	692.2	141.2	239.4	276.1	35.5
1979-80	116.4	5.3	613.1	153.0	449.6	288.9	37.1
1980-81	103.9	7.3	759.8	181.9	276.0	362.3	43.0
1981-82	123.0	7.0	857.0	120.8	558.0	349.5	43.9
1982-83	84.8	6.1	519.8	170.1	384.0	312.5	46.3
1983-84	119.1	5.3	634.2	140.2	241.0	381.7	50.5
1984-85	121.8	7.1	864.1	142.5	327.0	357.8	57.1
1985-86	106.1	6.5	687.5	117.1	464.6	398.2	58.6
1986-87	95.9	5.7	549.2	154.8	394.0	352.8	60.0
1987-88	105.4	7.2	761.1	152.0	314.6	391.0	80.2
1988-89	97.0	8.3	805.0	182.1	160.6	452.5	89.4
1989-90	105.0	8.8	924.0	152.6	149.8	486.7	97.6
1990-91	89.0	8.8	787.0	176.0	223.5	427.4	103.0
1991-92	127.0	8.8	1 122.0	164.0	449.3	461.6	90.6
1992-93	125.0	7.6	955.0	172.0	484.5	477.6	86.9
1993-94	132.7	8.2	1 082.0	241.7	533.8	506.5	98.7
1994-95	129.2	8.8	1 137.0	190.1	584.4	585.4	108.5
1995-96	149.7	6.4	951.2	237.6	606.0	554.9	118.2
1996-97	166.7	8.3	1 388.0	223.6	520.3	559.9	133.7
1997-98	141.2	9.4	1 330.9	255.9	680.9	582.8	135.5
1998-99	151.7	9.2	1 389.8	259.4	581.9	667.5	133.0
1999-00	133.3	8.3	1 100.7	262.7	672.1	616.4	136.4
2000-01	177.0	9.3	1 643.0	213.2	601.8	636.4	140.0
2001-02	150.0	7.9	1 192.0	274.2	584.7	554.7	144.6
2002-03	46.0	9.5	438.0	348.2	246.4	498.7	148.1
2003-04	66.0	8.4	553.0	325.1	131.9	623.2	152.1
2004-05	50.0	6.1	344.5	356.6	65.2	721.2	156.1

^a Based on rice industry figures calculated on a crop year basis. For example, the 1985-86 data are for the Queensland summer crop harvested from December 1985, the New South Wales crop harvested from April 1986, and the Queensland winter crop harvested from June 1986. ^b Paddy. ^c Unit gross value of production. ^d Based on ABS data; April–March marketing year basis; generally exports of the crop harvested in the previous year – that is, 1998-99 exports are sourced from the 1997-98 crop harvest. Milled. ^e Unit gross value of exports. Between 1952-53 and 1987-88, calculated from financial year total export values. From 1988-89, calculated from marketing year (April–March) total export values. ^f Table rice only. Excludes rice used for feed, breakfast cereals and rice used for other purposes; includes imports. Financial year basis. From 1999-00 ABARE estimate.

Sources: ABS, *Apparent Consumption of Foodstuffs and Nutrients Australia*, cat. no. 4306.0, Canberra; ABS, *International Trade, Australia*, cat. no. 5465.0, Canberra; Rice Marketing Board for the State of New South Wales, *Annual Report*, Leeton; ABARE.

198 Australian rice trade and payments to growers

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

a Milled equivalent; marketing year (April–March) basis. b Free on board (fob). c Excludes broken rice. d US Department of Agriculture sourced nominal quote for Thai white rice, 100 per cent, grade B/2nd grade, fob Bangkok (August–July basis). e Derived. f For paddy rice from harvest in year indicated. Returns to New South Wales and Queensland growers include bonuses paid by respective rice growers cooperatives. For New South Wales growers, returns take into account a deduction for grower equity in storage facilities made by the Rice Marketing Board, New South Wales.

Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; Queensland Rice Marketing Board, *Annual Report*, Home Hill; Rice Marketing Board, New South Wales, *Annual Report*, Leeton; Ricegrowers Co-operative Mills Ltd; US Department of Agriculture, *Rice News*, Little Rock, Arkansas; ABARE.

199 Summary of world statistics for rice ^a

	Area harvested million ha	Production ^b Mt	Total use Mt	Closing stocks ^{bc} Mt	Stocks to use ratio %	Trade ^d Mt	Export price ^e US\$/t
1960-61	120	151	157	10	7	7	132.33
1961-62	116	147	149	9	6	6	146.67
1962-63	120	155	151	13	8	7	149.42
1963-64	122	169	165	16	10	8	140.25
1964-65	125	181	180	17	10	8	135.00
1965-66	124	173	172	18	11	8	149.08
1966-67	126	179	179	19	10	8	181.67
1967-68	127	189	186	21	11	7	220.17
1968-69	129	195	192	25	13	7	186.75
1969-70	131	201	199	26	13	8	161.33
1970-71	133	213	211	29	14	9	131.83
1971-72	135	216	217	28	13	9	134.17
1972-73	133	209	213	24	11	8	187.12 ^f
1973-74	136	228	223	29	13	8	593.51 ^g
1974-75	138	226	226	28	12	7	439.12
1975-76	143	243	232	39	17	8	302.84
1976-77	141	236	237	38	16	11	274.66
1977-78	143	251	244	44	18	10	360.92
1978-79	144	262	252	54	21	12	339.83
1979-80	141	257	257	54	21	13	409.83
1980-81	144	270	275	53	19	13	492.58
1981-82	144	278	283	51	18	11	379.83
1982-83	141	285	285	57	20	12	280.42
1983-84	145	307	303	69	23	12	278.33
1984-85	144	317	309	88	28	12	211.29
1985-86	145	318	319	98	31	12	191.13
1986-87	145	316	320	103	32	13	189.66
1987-88	142	315	321	105	33	12	272.63
1988-89	146	331	327	111	34	15	292.44
1989-90	147	344	338	119	35	13	292.06
1990-91	147	351	343	127	37	12	296.09
1991-92	147	353	351	127	36	14	287.30
1992-93	147	354	356	123	35	15	244.25
1993-94	145	355	360	119	33	16	293.98
1994-95	147	364	364	118	33	21	289.76
1995-96	148	368	366	118	32	20	362.42
1996-97	150	381	376	121	32	28	337.83
1997-98	151	387	377	128	34	25	302.25
1998-99	153	395	387	135	35	23	283.75
1999-00	155	409	395	147	37	23	230.58
2000-01	151	399	392	151	38	24	184.17
2001-02	150	399	409	140	34	28	191.67
2002-03	146	377	404	111	27	28	199.42
2003-04	148	391	412	87	21	27	220.33
2004-05	152	401	413	73	18	27	278.33

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

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

200 World rice production, by country or region ^a

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

^a Crop year (paddy basis). ^b Regarded as fifteen countries to 1998-99, then twenty five countries from 1999-00.

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

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Volume of world rice trade, by country ^a

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

a Milled basis. **b** Regarded as fifteen countries to 1998, then twenty five countries from 1999. Includes intra-EU trade. **c** Includes intra-EU trade. Sources: ABS, *International Trade*, Australia, cat. no. 5465.0, Canberra; US Department of Agriculture, *Production, Supply and Distribution Database*, Washington DC; ABARE.

202 US rice supply and disposal ^a

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

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

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

203 Rice export price quotations, by country ^a

	Thailand Nominal price quote-US ^b US\$/t	Arkansas ^c US\$/t	California ^d US\$/t
1980-81	492.58	563.00	611.23
1981-82	379.83	445.42	461.59
1982-83	280.42	392.79	350.90
1983-84	278.33	411.25	340.34
1984-85	211.29	397.45	336.20
1985-86	191.13	355.77	345.46
1986-87	189.66	259.68	286.41
1987-88	272.63	441.47	371.11
1988-89	292.44	344.65	368.26
1989-90	292.06	354.85	357.51
1990-91	296.09	344.84	354.67
1991-92	287.30	368.17	396.09
1992-93	244.25	312.04	395.17
1993-94	293.98	442.48	486.35
1994-95	289.76	317.91	391.51
1995-96	362.42	420.07	464.80
1996-97	337.83	458.22	432.27
1997-98	302.25	419.83	412.52
1998-99	283.75	373.83	483.96
1999-00	230.58	283.06	474.55
2000-01	184.17	280.28	338.09
2001-02	191.67	220.16	293.60
2002-03	199.42	221.83	326.83
2003-04	220.33	359.83	532.83
2004-05	278.33	312.17	404.42
2004			
January	220.00	353.00	551.00
February	220.00	346.00	570.00
March	244.00	388.00	558.00
April	247.00	397.00	540.00
May	239.00	412.00	540.00
June	234.00	413.00	529.00
July	236.00	362.00	482.00
August	244.00	331.00	441.00
September	240.00	328.00	468.00
October	249.00	325.00	441.00
November	264.00	318.00	397.00
December	283.00	322.00	397.00
2005			
January	292.00	318.00	397.00
February	296.00	311.00	397.00
March	298.00	304.00	397.00
April	302.00	303.00	397.00
May	300.00	307.00	379.00
June	291.00	294.00	375.00
July	281.00	285.00	367.00
August	288.00	278.00	370.00

^a Key prices from major markets (August–July years) that are used as world indicators. ^b Thai white rice, 100 per cent 2nd grade, fob Bangkok, nominal price quote, USDA. Prior to 1984-85 quoted from Thailand Board of Trade. ^c US no. 2 long grain milled. ^d US no.1 medium grain milled.

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

204 Rice supply and disposal in major exporting countries ^a

	Area harvested million ha	Yield t/ha	Production ^b Mt	Domestic use Mt	Exports ^c Mt	Closing stocks ^d Mt
China						
1999-00	31.28	6.35	198.48	133.76	2.95	98.50
2000-01	29.96	6.27	187.91	134.36	1.87	94.10
2001-02	28.49	6.23	177.58	134.58	1.96	82.17
2002-03	28.20	6.19	174.50	134.80	2.58	67.22
2003-04	26.51	6.06	160.66	135.00	0.88	44.93
2004-05	28.80	6.24	179.60	135.10	0.75	34.94
Viet Nam						
1999-00	7.66	4.14	31.71	16.00	3.37	2.48
2000-01	7.49	4.14	31.02	16.50	3.53	2.96
2001-02	7.47	4.27	31.87	17.00	3.25	3.79
2002-03	7.46	4.37	32.62	17.50	4.00	4.07
2003-04	7.47	4.48	33.46	18.00	4.30	4.15
2004-05	7.42	4.62	34.28	18.50	4.80	3.58
Pakistan						
1999-00	2.52	3.08	7.74	2.60	2.03	0.84
2000-01	2.35	3.06	7.20	2.63	2.42	0.58
2001-02	2.12	2.75	5.82	2.64	1.60	0.20
2002-03	2.20	3.05	6.72	2.65	1.96	0.05
2003-04	2.46	2.96	7.27	2.70	1.99	0.24
2004-05	2.50	2.95	7.38	2.75	2.10	0.51
Thailand						
1999-00	9.97	2.51	25.00	9.50	6.55	1.96
2000-01	9.89	2.61	25.84	9.25	7.52	2.25
2001-02	10.13	2.62	26.51	9.40	7.25	3.12
2002-03	10.16	2.56	26.06	9.46	7.55	3.30
2003-04	10.32	2.64	27.29	9.47	10.14	1.71
2004-05	9.82	2.62	25.76	9.48	7.50	1.73
United States						
1999-00	1.42	6.58	9.35	3.85	2.85	0.87
2000-01	1.23	7.04	8.66	3.68	2.54	0.88
2001-02	1.34	7.28	9.76	3.85	3.30	1.22
2002-03	1.30	7.36	9.57	3.53	3.83	0.83
2003-04	1.21	7.50	9.07	3.66	3.09	7.60
2004-05	1.35	7.76	10.47	3.85	3.54	0.98
World						
1999-00	155.19	3.92	608.00	395.01	22.76	146.57
2000-01	151.40	3.92	593.08	392.26	24.41	150.71
2001-02	150.07	3.96	593.64	408.86	27.81	139.95
2002-03	145.68	3.86	561.65	403.87	27.55	110.84
2003-04	148.00	3.94	583.25	412.49	27.12	87.11
2004-05	151.68	3.97	602.55	413.33	27.19	73.21

^a Simple aggregation of different crop years. The marketing period in each country is: United States, August–July; Thailand, August–July; China, December–November; Pakistan, October–September; Viet Nam, July–June. ^b Paddy. ^c On a calendar year basis: 1999-00 =2000; includes intra-EU trade. ^d Closing stocks are based on an aggregate of different local marketing years and should not be taken as representing world stock levels at a particular point in time.

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

205 Summary of Australian statistics for sugar

	Area harvested '000 ha	Cane crushed kt	Sugar production a kt	No. 1 pool price \$/t	Exports kt
1960-61	138	9 313	1 362	99.6	809
1961-62	157	9 730	1 362	98.9	857
1962-63	163	12 940	1 823	104.5	1 164
1963-64	169	12 313	1 699	120.7	1 134
1964-65	190	15 312	1 921	96.8	1 290
1965-66	204	14 382	1 924	85.7	1 273
1966-67	226	16 953	2 307	76.0	1 664
1967-68	224	17 025	2 300	83.1	1 622
1968-69	230	18 708	2 684	88.2	2 062
1969-70	213	15 784	2 146	100.3	1 386
1970-71	221	17 645	2 448	102.8	1 571
1971-72	234	19 391	2 708	111.8	2 008
1972-73	242	18 928	2 732	118.7	2 084
1973-74	226	19 278	2 449	129.9	1 781
1974-75	253	20 418	2 761	252.7	1 996
1975-76	257	21 959	2 769	232.2	2 000
1976-77	288	23 344	3 194	214.1	2 556
1977-78	295	23 493	3 240	196.4	2 478
1978-79	252	21 457	2 812	213.2	1 840
1979-80	267	21 151	2 871	281.7	2 201
1980-81	288	23 976	3 227	376.0	2 558
1981-82	316	25 094	3 329	275.0	2 498
1982-83	318	24 817	3 428	223.0	2 548
1983-84	307	24 190	3 073	259.0	2 357
1984-85	313	25 512	3 439	226.0	2 524
1985-86	304	24 414	3 275	223.3	2 799
1986-87	310	25 413	3 268	275.0	2 471
1987-88	317	25 669	3 334	287.0	2 776
1988-89	313	28 073	3 566	333.0	2 824
1989-90	332	27 622	3 681	370.0	2 799
1990-91	339	25 200	3 407	341.0	2 649
1991-92	341	21 367	3 016	303.4	2 276
1992-93	339	29 461	4 133	301.0	3 127
1993-94	340	32 008	4 234	345.0	3 415
1994-95	365	34 943	4 931	382.0	4 111
1995-96	377	35 889	4 837	371.0	3 979
1996-97	390	38 633	5 301	335.0	4 309
1997-98	415	39 531	5 567	335.0	4 670
1998-99	402	38 534	4 998	352.0	4 098
1999-00	428	38 165	5 448	255.0	4 131
2000-01	403	28 117	4 162	253.0	3 087
2001-02	426	31 424	4 987	331.6	3 644
2002-03	448	36 995	5 461	276.7	4 167
2003-04	448	36 993	4 994	231.9	4 060
2004-05	420	37 485	5 196	255.8	4 193

a Raw tonnes actual.

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

206 Australian cane and sugar production

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

a Raw tonnes actual.

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

207 Volume of Australian exports of sugar, by destination

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

p Preliminary. na Not available.

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

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

	Production Mt	Total supply Mt	Consumption Mt	Closing stocks ^b Mt		Trade ^c Mt	World price ^d	
							US terms US\$/lb	Australian terms A\$/t ^e
1960-61	56.1	70.9	na	na	na	na	na	59.1
1961-62	52.4	69.4	na	na	na	na	na	48.6
1962-63	51.3	64.8	na	na	na	na	na	120.8
1963-64	54.7	64.8	na	na	na	na	na	156.8
1964-65	66.8	78.0	na	na	na	na	na	49.6
1965-66	63.1	81.9	na	na	na	na	na	37.5
1966-67	65.6	84.8	na	na	na	na	na	33.4
1967-68	97.9	87.0	na	na	na	na	na	36.9
1968-69	68.4	89.0	na	na	na	na	na	57.9
1969-70	74.2	93.8	na	na	na	na	na	69.3
1970-71	71.0	92.0	72.8	18.8	(25.8)	na	3.3	84.7
1971-72	72.2	91.0	74.3	16.9	(22.7)	na	6.2	115.7
1972-73	75.6	92.5	76.4	16.4	(21.5)	na	8.7	143.1
1973-74	78.5	94.9	78.3	16.2	(20.7)	na	18.5	274.6
1974-75	78.0	94.2	75.9	17.7	(23.3)	na	30.3	499.5
1975-76	81.1	98.8	78.5	20.6	(26.2)	na	13.6	239.7
1976-77	86.7	107.3	81.3	25.1	(30.9)	na	8.3	162.0
1977-78	91.2	116.3	85.2	30.5	(35.8)	na	7.5	146.1
1978-79	91.0	121.5	89.3	31.7	(35.5)	na	8.2	159.9
1979-80	85.1	116.8	90.1	25.9	(28.7)	na	21.0	412.5
1980-81	88.7	114.6	89.8	25.6	(28.5)	28.6	24.7	467.8
1981-82	100.9	126.5	92.2	33.3	(36.1)	31.6	10.4	211.0
1982-83	100.6	133.9	94.4	38.7	(41.0)	29.6	7.6	184.9
1983-84	98.0	136.7	96.3	39.5	(41.0)	29.6	6.7	164.7
1984-85	100.4	139.9	98.0	42.0	(42.9)	29.2	3.7	108.6
1985-86	98.6	140.6	100.0	39.0	(39.0)	28.8	6.0	192.4
1986-87	104.2	143.2	105.9	35.8	(33.8)	28.7	6.2	203.2
1987-88	104.7	140.5	107.2	33.4	(31.1)	27.9	9.0	265.5
1988-89	104.6	138.0	107.0	31.1	(29.0)	35.2	11.6	319.1
1989-90	109.1	140.2	109.5	30.6	(28.0)	34.7	13.9	397.0
1990-91	115.7	146.3	110.4	35.0	(31.8)	34.4	9.4	264.6
1991-92	116.9	151.9	111.0	40.0	(36.0)	32.2	9.1	266.4
1992-93	112.7	152.7	111.9	39.8	(35.6)	32.6	9.6	304.8
1993-94	111.4	151.2	112.2	37.6	(33.5)	34.1	10.6	346.4
1994-95	116.1	153.7	114.7	38.2	(33.3)	35.5	13.6	411.7
1995-96	125.7	163.9	119.2	40.4	(33.9)	36.1	12.3	360.1
1996-97	123.7	164.1	122.1	41.9	(34.3)	35.6	11.3	331.6
1997-98	127.8	169.7	125.1	44.7	(35.7)	36.9	10.8	374.1
1998-99	135.3	180.0	125.6	54.3	(43.3)	39.3	7.2	252.0
1999-00	131.7	186.0	127.4	58.7	(46.0)	37.1	6.2	253.7
2000-01	130.7	189.4	131.1	58.3	(44.5)	39.4	9.8	407.2
2001-02	137.3	195.6	135.6	60.0	(44.2)	43.5	7.2	287.3
2002-03	148.3	208.3	140.8	66.1	(47.0)	43.6	7.5	282.0
2003-04	143.0	209.1	144.5	64.6	(44.7)	45.0	6.3	196.5
2004-05	144.4	209.0	147.6	61.4	(41.6)	45.9	8.4	247.4

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

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

209 World sugar production, by region and country ^a

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

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

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

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Volume of world sugar trade, by country ^a

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

^a Includes both raw and white sugar measured in raw sugar equivalents, September–August years. ^b Regarded as fifteen countries to 2003-04, then twenty five countries from 2004-05. ^c Included in European Union from 2004-05. ^d Totals for exports and imports may not be equal as a result of losses in transit, sugar being at sea at the end of each year, and discrepancies in the official statistics of individual countries. **na** Not available.

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

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

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

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

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

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Volume of world white sugar trade, by country ^a

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

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

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

213 Summary of Australian statistics for wheat ^a

	Production			Exports ^b		Domestic use ^e	Closing stocks ^f	
	Area ^c '000 ha	Yield t/ha	Volume ^c kt	Unit value \$/t	Volume kt			Unit value ^d \$/t
1962-63	6 664	1.25	8 353	53.8	6 222	52.0	1 980	638
1963-64	6 666	1.34	8 924	52.4	6 894	52.0	2 110	558
1964-65	7 251	1.38	10 037	51.6	7 268	52.0	2 662	665
1965-66	7 087	1.00	7 067	54.5	4 755	51.0	2 525	452
1966-67	8 426	1.51	12 699	54.3	8 526	55.0	2 437	2 188
1967-68	9 081	0.83	7 547	57.7	5 644	53.0	2 682	1 409
1968-69	10 844	1.37	14 804	49.4	6 585	53.0	2 370	7 258
1969-70	9 485	1.11	10 547	50.4	8 185	49.0	2 403	7 217
1970-71	6 478	1.22	7 890	51.1	9 049	48.0	2 654	3 404
1971-72	7 137	1.19	8 510	54.4	7 760	50.0	2 703	1 451
1972-73	7 604	0.87	6 590	54.1	4 137	51.0	3 426	478
1973-74	8 948	1.34	11 987	109.4	7 418	102.0	3 165	1 882
1974-75	8 307	1.37	11 357	110.6	8 550	132.0	3 031	1 658
1975-76	8 555	1.40	11 982	104.3	8 233	122.0	2 742	2 665
1976-77	8 956	1.30	11 667	90.1	9 763	109.0	2 432	2 137
1977-78	9 955	0.94	9 370	99.8	8 098	93.0	2 629	780
1978-79	10 249	1.77	18 090	126.9	11 693	116.0	2 531	4 646
1979-80	11 152	1.45	16 188	153.1	13 197	146.0	3 369	4 268
1980-81	11 283	0.96	10 856	155.1	9 614	164.0	3 466	2 044
1981-82	11 885	1.38	16 360	158.9	11 068	158.0	2 457	4 879
1982-83	11 520	0.77	8 876	176.5	7 280	168.0	4 190	2 285
1983-84	12 800	1.72	22 016	163.8	14 159	172.0	2 641	7 501
1984-85	12 045	1.55	18 665	171.6	14 659	183.0	3 081	8 426
1985-86	11 736	1.39	16 259	165.7	16 331	185.0	2 526	5 828
1986-87	11 135	1.46	16 308	147.8	15 658	147.0	2 763	3 715
1987-88	9 005	1.37	12 368	161.9	9 993	145.0	3 350	2 740
1988-89	8 827	1.59	14 061	209.8	11 427	214.4	2 865	2 509
1989-90	9 004	1.58	14 214	195.2	10 993	213.0	2 403	3 327
1990-91	9 218	1.63	15 066	132.0	12 002	136.5	3 227	3 164
1991-92	7 183	1.47	10 557	200.2	7 136	202.4	4 082	2 504
1992-93	8 275	1.96	16 184	165.9	10 359	206.8	4 172	4 157
1993-94	8 383	1.97	16 479	174.0	13 818	174.7	3 888	2 930
1994-95	7 891	1.14	8 972	237.1	6 351	234.1	3 907	1 644
1995-96	9 221	1.79	16 504	260.8	13 319	286.4	4 088	741
1996-97	10 936	2.10	22 924	212.8	19 224	226.9	3 477	964
1997-98	10 441	1.84	19 224	197.7	15 725	240.9	4 079	384
1998-99	11 543	1.86	21 464	186.9	16 448	203.3	4 347	1 053
1999-00	12 168	2.03	24 758	195.1	17 838	205.4	4 666	3 308
2000-01	12 141	1.82	22 108	232.1	16 142	267.9	4 791	4 483
2001-02	11 529	2.11	24 299	261.6	16 317	277.9	4 894	7 570
2002-03	11 170	0.91	10 132	265.7	9 107	283.1	5 666	2 930
2003-04	13 067	2.00	26 132	215.7	17 867	231.1	5 076	6 119
2004-05	11 991	1.70	20 376	213.6	14 694	213.7	5 210	6 588

a Crop years: up to and including 1981-82: 1 December to 30 November; 1982-83 and subsequent years: 1 October to 30 September. **b** For wheat including flour, in wheat equivalent (conversion 1:1.29). **c** Details for establishments with an estimated value of agricultural operations (EVAO) of \$2 500 or more until 1985-86; EVAO of \$5 000 or more from 1986-87 to 1988-89; EVAO of \$20 000 or more from 1989-90 to 1990-91; EVAO of \$22 500 or more from 1991-92 to 1992-93; and EVAO of \$5 000 or more from 1993-94. **d** Export unit value based on financial year exports until 1987-88 and crop year exports thereafter. **e** Calculated as production less exports plus net change in Inlands wasteage. **f** Includes AWB Limited Pool and Trading Division closing stocks.

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

214 Australian wheat area, yield and production, by state

	Unit	New South Wales	Victoria	Queensland	Western Australia	South Australia	Tasmania	Australia a
Area b								
1991-92	'000 ha	1 499	664	492	3 230	1 297	1	7 183
1992-93	'000 ha	1 800	950	800	4 000	1 550	1	8 275
1993-94	'000 ha	1 978	780	555	3 852	1 216	2	8 383
1994-95	'000 ha	1 424	822	401	3 848	1 395	1	7 891
1995-96	'000 ha	2 328	853	627	3 892	1 519	1	9 221
1996-97	'000 ha	3 192	963	980	4 264	1 535	2	10 936
1997-98	'000 ha	2 936	857	999	4 205	1 439	3	10 441
1998-99	'000 ha	3 174	949	1 139	4 515	1 762	4	11 543
1999-00	'000 ha	3 425	1 235	1 096	4 556	1 850	6	12 168
2000-01	'000 ha	3 671	1 143	885	4 460	1 976	7	12 141
2001-02	'000 ha	3 446	1 136	604	4 350	1 987	6	11 529
2002-03	'000 ha	2 996	1 239	514	4 458	1 957	7	11 170
2003-04	'000 ha	3 983	1 409	790	4 917	1 960	8	13 067
2004-05	'000 ha	3 335	1 380	550	4 750	1 967	9	11 991
Yield								
1991-92	t/ha	1.46	1.73	0.70	1.47	1.65	3.00	1.47
1992-93	t/ha	2.33	2.53	0.88	1.55	1.73	4.00	1.96
1993-94	t/ha	2.57	2.59	1.00	1.74	1.74	3.00	1.97
1994-95	t/ha	0.61	1.15	0.56	1.41	1.07	2.19	1.14
1995-96	t/ha	1.94	2.25	0.83	1.75	1.79	3.86	1.79
1996-97	t/ha	2.62	2.35	2.02	1.76	1.82	4.00	2.10
1997-98	t/ha	2.01	1.75	1.39	1.84	1.87	4.00	1.84
1998-99	t/ha	2.07	1.54	1.70	1.81	1.88	4.50	1.86
1999-00	t/ha	2.51	2.14	1.74	1.98	1.40	3.33	2.03
2000-01	t/ha	2.14	2.69	1.31	1.30	2.11	3.71	1.82
2001-02	t/ha	2.33	2.46	1.49	1.78	2.40	4.17	2.11
2002-03	t/ha	0.83	0.72	1.17	0.91	1.06	3.57	0.91
2003-04	t/ha	1.83	2.23	1.41	2.25	1.78	3.19	2.00
2004-05	t/ha	2.06	1.49	2.00	1.62	1.33	2.67	1.70
Production b								
1991-92	kt	2 183	1 150	344	4 736	2 141	3	10 557
1992-93	kt	4 200	2 400	700	6 200	2 680	4	16 184
1993-94	kt	5 086	2 022	555	6 689	2 121	6	16 479
1994-95	kt	875	944	225	5 438	1 487	3	8 972
1995-96	kt	4 508	1 921	519	6 827	2 724	4	16 504
1996-97	kt	8 363	2 262	1 980	7 516	2 795	8	22 924
1997-98	kt	5 906	1 503	1 389	7 725	2 689	12	19 224
1998-99	kt	6 563	1 462	1 941	8 170	3 310	18	21 464
1999-00	kt	8 602	2 642	1 904	9 004	2 586	20	24 758
2000-01	kt	7 867	3 080	1 157	5 814	4 162	26	22 108
2001-02	kt	8 043	2 791	901	7 760	4 778	25	24 299
2002-03	kt	2 497	890	601	4 047	2 072	25	10 132
2003-04	kt	7 288	3 145	1 110	11 070	3 490	26	26 132
2004-05	kt	6 870	2 055	1 100	7 705	2 622	24	20 376

a Includes data for the Australian Capital Territory and the Northern Territory. State totals may not add to Australian totals as a result of rounding. **b** For 1991-92 to 1992-93, excludes establishments with an EVAO less than \$22 500; from 1993-94, excludes establishments with an EVAO less than \$5 000.

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

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

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

^a July-June year except for 1997-98 which is AWB marketing year data. Exports are of wheat (including spelt, groats, meal and pellets) and meslin (mixed grain, especially rye mixed with wheat), plus plain white flour, wholemeal flour and self-raising white flour in wheat equivalent (conversion 1:1.29).

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

216 Australian wheat supply and disposal ^a

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

^a 1 October to 30 September. ^b Calculated as residual: production less exports less other domestic uses plus net change in stocks. ^c Wheat equivalent (conversion 1:1.29).

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

217 Australian wheat prices

	AWB Limited export quote a		Stock feed	Unit GVP
	US\$/t	A\$/t	wheat b A\$/t	A\$/t
1966-67	na	na	57.50	54.33
1967-68	na	na	60.81	57.70
1968-69	na	na	62.83	49.40
1969-70	na	na	63.38	50.36
1970-71	na	51.00	63.93	51.15
1971-72	na	49.00	54.75	54.35
1972-73	90.00	70.00	56.97	54.11
1973-74	195.00	132.00	71.00	109.45
1974-75	167.00	122.00	83.40	110.63
1975-76	146.00	116.00	99.32	104.26
1976-77	114.00	99.00	105.40	90.06
1977-78	118.00	105.00	111.60	99.77
1978-79	143.00	126.00	116.61	126.91
1979-80	169.00	152.00	140.50	153.07
1980-81	180.00	155.00	151.37	155.13
1981-82	165.00	149.00	149.78	158.89
1982-83	164.00	175.00	184.11	176.45
1983-84	154.00	170.00	175.24	163.77
1984-85	150.00	194.00	204.36	171.60
1985-86	133.00	190.00	193.82	165.67
1986-87	110.00	166.00	170.12	147.80
1987-88	125.00	172.00	189.54	161.93
1988-89	172.00	212.00	221.84	209.82
1989-90	168.00	218.00	171.00	195.24
1990-91	126.58	161.07	135.83	131.96
1991-92	160.33	208.77	159.67	200.16
1992-93	155.67	222.97	143.50	165.94
1993-94	153.75	223.70	137.58	173.97
1994-95	175.08	236.97	232.75	237.09
1995-96	230.42	304.56	234.72	260.83
1996-97	206.67	264.92	188.38	212.79
1997-98	167.00	246.22	185.93	197.75
1998-99	146.91	234.65	155.38	186.87
1999-00	136.42	216.66	153.63	195.14
2000-01	153.97	285.88	171.83	232.06
2001-02	157.58	301.02	211.87	261.59
2002-03	185.03	316.46	309.69	265.68
2003-04	183.56	256.32	221.51	215.67
2004-05	175.43	233.40	194.66	213.56

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

218 Summary of world statistics for wheat

	Area million ha	Production Mt	Use Mt	Closing stocks a		Stocks to use ratio %	Trade c Mt	Use per person kg	Price d US\$/t
				World a Mt	Exporters b Mt				
1960-61	202	241	232	82	63	35	43	77	62.00
1961-62	202	227	236	73	54	31	47	77	63.00
1962-63	206	258	248	83	55	33	43	80	64.00
1963-64	209	241	252	72	46	29	56	79	66.00
1964-65	217	276	262	86	46	33	51	81	64.00
1965-66	219	265	284	67	34	24	62	85	58.00
1966-67	219	311	286	92	35	32	56	84	66.00
1967-68	223	300	294	98	43	33	51	85	62.00
1968-69	227	332	308	122	62	40	46	87	63.00
1969-70	220	315	329	108	65	33	51	91	52.00
1970-71	210	319	342	85	51	25	54	93	60.00
1971-72	215	354	349	90	49	26	52	93	60.00
1972-73	213	348	367	71	28	19	68	96	91.00
1973-74	221	376	360	87	26	24	63	93	177.00
1974-75	223	364	368	83	30	23	63	93	164.00
1975-76	227	359	362	80	38	22	66	90	152.00
1976-77	234	425	384	121	56	32	62	93	113.00
1977-78	228	386	409	98	53	24	72	98	116.00
1978-79	230	451	429	120	56	28	72	101	141.00
1979-80	229	429	448	101	49	23	86	103	175.00
1980-81	237	445	449	97	47	22	94	101	183.00
1981-82	240	454	447	104	59	23	101	99	170.00
1982-83	239	482	465	121	70	26	96	101	160.00
1983-84	231	494	483	132	66	27	100	104	154.00
1984-85	232	513	503	147	73	29	103	105	148.00
1985-86	231	500	495	157	85	32	84	103	128.00
1986-87	229	531	529	176	83	33	90	108	110.50
1987-88	221	505	537	150	61	28	107	108	123.40
1988-89	220	500	538	116	39	22	98	106	165.75
1989-90	226	537	532	120	36	23	95	102	160.83
1990-91	230	592	562	145	55	26	92	106	117.94
1991-92	221	543	556	133	48	24	108	103	150.96
1992-93	221	562	550	145	55	26	105	101	141.33
1993-94	220	557	562	142	45	25	93	101	141.52
1994-95	215	524	547	118	31	22	92	97	156.42
1995-96	219	541	552	104	29	19	96	97	215.33
1996-97	231	582	577	168	36	29	99	99	178.50
1997-98	228	610	582	195	52	33	99	99	141.75
1998-99	225	586	580	202	54	35	99	98	119.08
1999-00	217	585	583	204	52	35	109	97	113.17
2000-01	216	582	584	202	53	35	102	96	128.50
2001-02	213	582	586	197	47	34	107	95	127.51
2002-03	212	566	600	164	35	27	106	92	160.46
2003-04	207	555	593	127	40	21	102	89	160.49
2004-05	214	623	613	137	53	22	109	90	153.87

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

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

219 World wheat production, by country

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

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

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

220 Volume of world wheat trade, by country ^a

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

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

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

221 US wheat supply and disposal ^a

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

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

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

222 Wheat export price quotations, by country and category

	Australian prime hard 14% (eastern states) US\$/t	No. 1 Canadian western red spring 12.5% (Vancouver) a US\$/t	Australian standard white (eastern states) US\$/t	US no. 2 hard red winter (Gulf) US\$/t	Argentinean bread wheat US\$/t	EU standard (Rouen) US\$/t	US no. 2 soft red winter (Gulf) US\$/t
1980-81	209.00	230.00	181.00	183.00	204.00	170.00	175.00
1981-82	185.00	201.00	165.00	170.00	178.00	150.00	148.00
1982-83	178.00	190.00	163.00	160.00	148.00	132.00	131.00
1983-84	178.00	193.00	153.83	154.00	137.00	146.00	142.00
1984-85	169.00	188.00	150.33	148.00	125.00	131.00	139.00
1985-86	159.00	180.00	132.50	128.00	102.00	111.00	125.00
1986-87	131.00	148.00	110.00	110.50	84.00	83.00	113.00
1987-88	145.00	164.00	125.11	123.40	101.00	84.00	120.00
1988-89	193.75	224.92	171.90	165.75	151.17	146.75	161.42
1989-90	183.58	193.75	167.60	160.83	138.58	142.17	152.83
1990-91	148.58	160.67	126.73	117.94	86.75	89.92	112.67
1991-92	201.50	188.42	160.25	150.96	117.67	119.00	147.08
1992-93	191.42	192.83	157.05	141.33	124.17	132.83	142.17
1993-94	240.58	222.25	153.25	141.52	117.50	95.58	133.83
1994-95	218.86	209.17	174.37	156.42	132.83	128.11	146.75
1995-96	272.03	254.83	232.39	215.33	215.92	176.92	180.17
1996-97	224.00	216.58	207.47	178.50	153.33	155.42	159.00
1997-98	203.06	197.28	167.50	141.75	134.31	133.80	130.91
1998-99	194.10	180.78	147.43	119.08	114.15	102.08	102.93
1999-00	190.17	176.33	136.44	113.17	111.17	92.75	98.83
2000-01	192.00	183.91	153.57	128.50	125.04	100.11	102.94
2001-02	185.73	166.45	157.09	127.51	116.71	110.85	116.10
2002-03	205.79	211.80	185.22	160.46	144.54	113.50	140.16
2003-04	207.79	203.39	183.56	160.49	153.50	174.23	152.45
2004-05	200.71	205.83	175.70	153.87	123.82	138.66	142.30
2004							
January	212.34	209.40	190.54	170.07	160.40	198.40	161.04
February	211.83	215.32	189.24	164.12	148.25	194.33	158.51
March	211.99	214.26	190.05	169.04	152.25	189.13	160.09
April	217.28	215.89	194.47	171.89	159.60	185.84	163.14
May	216.70	212.76	191.86	164.28	155.50	173.26	150.71
June	210.31	207.57	186.01	157.54	143.75	161.57	142.40
July	198.80	194.18	175.50	152.41	137.00	140.37	136.10
August	190.95	184.93	164.65	145.00	124.25	141.04	132.68
September	202.90	215.79	176.54	156.00	127.25	141.29	142.40
October	203.86	215.30	177.77	155.00	124.80	141.13	145.49
November	206.53	222.57	181.78	162.00	115.75	147.39	146.22
December	206.08	209.49	179.36	160.00	111.40	147.07	143.80
2005							
January	205.03	212.99	180.80	157.00	106.75	143.84	144.27
February	198.93	207.28	174.57	154.00	115.75	137.18	148.10
March	207.25	206.02	181.42	158.00	127.50	134.29	158.95
April	196.95	197.51	170.91	148.00	129.40	132.71	137.46
May	193.85	199.08	172.46	149.00	133.25	128.45	135.64
June	197.40	204.83	172.75	150.00	132.75	129.11	136.54
July	195.00	199.11	171.42	149.00	143.40	128.00	133.16
August	207.90	206.22	177.45	158.00	141.75	132.00	133.53

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

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

223 Wheat supply and disposal in major exporting countries ^a

	Area million ha	Yield t/ha	Production Mt	Domestic use Mt	Exports ^b Mt	Closing stocks Mt
United States (June–May)						
1999-00	21.8	2.88	62.7	35.4	35.4	25.8
2000-01	21.5	2.82	60.6	36.2	36.2	23.8
2001-02	19.6	2.72	53.3	32.4	32.4	21.2
2002-03	18.5	2.36	43.7	30.4	23.7	13.4
2003-04	21.5	2.97	63.8	32.5	32.5	14.9
2004-05	20.2	2.91	58.7	31.9	27.9	14.7
Canada (August–July)						
1999-00	10.4	2.60	26.9	8.5	18.7	7.7
2000-01	11.0	2.45	26.8	7.8	17.3	9.7
2001-02	10.6	1.94	20.6	7.4	16.7	6.7
2002-03	8.8	1.84	16.2	8.2	9.2	5.7
2003-04	10.5	2.25	23.6	7.5	15.6	6.1
2004-05	9.9	2.62	25.9	9.2	15.5	8.2
Argentina (December–November)						
1999-00	5.9	2.66	15.7	4.1	10.8	0.6
2000-01	6.4	2.58	16.5	5.0	11.2	0.6
2001-02	6.8	2.24	15.3	5.0	11.4	1.2
2002-03	5.8	2.12	12.3	5.3	6.1	1.7
2003-04	6.0	2.41	14.5	5.6	7.4	1.2
2004-05	6.2	2.58	16.0	5.8	13.1	0.9
Australia (October–September)						
1999-00	12.2	2.03	24.8	4.7	17.8	3.3
2000-01	12.1	1.82	22.1	4.8	16.1	4.5
2001-02	11.5	2.11	24.3	4.9	16.3	7.6
2002-03	11.2	0.91	10.1	5.7	9.1	2.9
2003-04	13.1	2.00	26.1	5.1	17.9	6.1
2004-05	12.0	1.70	20.4	5.2	14.7	6.6
European Union (July–June) ^c						
1999-00	17.1	5.64	96.5	86.8	16.7	14.3
2000-01	18.0	5.78	104.4	91.1	14.3	14.6
2001-02	16.7	5.42	90.5	90.5	10.8	12.6
2002-03	17.9	5.76	103.2	95.8	15.4	14.9
2003-04	22.2	4.78	106.2	107.3	10.3	11.1
2004-05	23.0	5.92	136.1	116.5	12.9	23.1
Total ^{cd}						
1999-00	67.3	3.36	226.6	139.4	100.2	52.2
2000-01	69.0	3.34	230.4	144.9	96.1	53.1
2001-02	65.3	3.13	204.0	140.1	88.3	47.3
2002-03	62.2	2.98	185.5	145.4	63.1	35.2
2003-04	73.3	3.20	234.3	158.0	83.4	40.5
2004-05	71.3	3.61	257.1	168.6	84.1	52.9

^a The marketing period in each country is shown in parentheses. ^b Includes wheat equivalent of flour and other wheat products. ^c Regarded as twenty five countries from 2003-04. Excludes intra-EU trade. EU stock figures include intervention stocks. ^d Simple aggregation of different crop years.

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

224 Summary of Australian statistics for wool

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

a Sheep and lambs. **b** Before 1982, includes livestock holdings on establishments with an estimated value of agricultural operations (EVAO) of \$1 500 or more. Between 1982 and 1986, includes livestock holdings on establishments with an EVAO of \$2 500 or more and from 1987, an EVAO of \$5 000. **c** July–June years. **d** No official stocks of wool were held between 1951–52 and 1969–70. Australian wool held by the Australian Wool Board in 1970–71 and 1971–72, by the Australian Wool Corporation from 1972–73 to 1990–91 and by the Australian Wool Realisation Commission from 1 July 1991 to December 1993. Also includes stocks of wool held under the Price Averaging Plan in 1970–71 to 1972–73. From July 1993, includes stocks held on farms and unsold wool held in brokers' stores. **e** Wool International eastern market indicator from 1973–74 to 1994–95. Australian Wool Exchange eastern market indicator from 1995–96 onward. (Original market indicators for the period 1991–92 to 1993–94 can be calculated by dividing by 1.064. For the years between 1983–84 to 1990–91, divide by 1.114. For 1982–83 and earlier years, divide by 1.136). **na** Not available.

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

225 Australian shorn wool production, by state

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

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

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

226 Australian sheep disposal and wool production

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

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

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

227 Average auction prices for greasy wool in principal exporting countries

	Australia ^a c/kg	New Zealand ^a c/kg	South Africa ^a c/kg
1960-61	95.64	92.05	na
1961-62	99.45	89.44	na
1962-63	108.31	97.76	na
1963-64	128.04	125.71	na
1964-65	105.45	96.15	na
1965-66	110.41	95.03	na
1966-67	104.46	80.50	na
1967-68	92.04	54.55	na
1968-69	98.48	61.90	na
1969-70	82.78	56.50	na
1970-71	64.68	53.40	56.28
1971-72	75.25	66.50	58.72
1972-73	183.77	139.26	155.87
1973-74	181.16	134.62	160.89
1974-75	126.99	90.35	101.23
1975-76	143.25	131.57	129.61
1976-77	182.73	184.23	163.37
1977-78	187.14	168.94	168.30
1978-79	205.24	202.78	187.78
1979-80	243.57	233.98	226.13
1980-81	255.97	200.73	227.16
1981-82	264.69	186.10	237.21
1982-83	269.85	191.97	237.42
1983-84	293.84	214.40	261.05
1984-85	317.80	234.26	284.08
1985-86	342.06	268.17	276.08
1986-87	395.47	336.32	331.65
1987-88	632.69	404.01	553.61
1988-89	647.26	396.31	513.24
1989-90	555.30	359.80	433.02
1990-91	413.83	243.38	297.83
1991-92	358.82	237.39	321.09
1992-93	313.53	249.44	280.83
1993-94	330.08	209.09	251.87
1994-95	504.43	314.43	392.48
1995-96	386.73	327.08	316.71
1996-97	403.01	296.41	340.42
1997-98	444.30	279.58	365.88
1998-99	323.39	231.14	250.47
1999-00	357.28	205.29	313.79
2000-01	512.00	226.88	347.76
2001-02	526.67	252.05	386.18
2002-03	682.00	285.56	359.14
2003-04	533.00	212.00	383.30
2004-05	484.90	na	na

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

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

228 Average world prices for synthetic fibres

	US polyester price a US\$/lb	Chinese Taipei polyester price bc US\$/lb	Chinese Taipei acrylic price bd US\$/lb
1982-83	73.00	na	77.00
1983-84	78.00	na	79.00
1984-85	72.00	na	80.00
1985-86	64.00	na	82.00
1986-87	62.00	na	83.00
1987-88	70.00	53.54	82.80
1988-89	79.00	72.44	77.00
1989-90	88.00	61.22	72.65
1990-91	77.00	52.22	70.76
1991-92	73.00	na	77.00
1992-93	73.00	48.28	74.68
1993-94	72.00	55.08	68.06
1994-95	81.70	79.30	93.20
1995-96	88.00	76.00	88.00
1996-97	72.00	52.17	78.00
1997-98	69.00	42.00	70.00
1998-99	53.00	32.00	54.00
1999-00	54.00	42.00	57.00
2000-01	59.75	40.00	59.00
2001-02	60.25	34.00	54.00
2002-03	62.17	35.07	55.70
2003-04	60.08	33.83	53.73
2004-05	66.25	na	na

a Reported average market price for 1.5 denier polyester staple for cotton blending, landed group B mill points fob producing plants. Simple averages of weekly prices. **b** Simple averages of monthly prices. **c** Chinese Taipei staple, 1.5 denier. **d** Chinese Taipei staple, 3 denier. **na** Not available.

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

229 Australian wool exports, by destination, recorded trade basis

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

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

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

230 Volume of Australian exports of semiprocessed shorn wool

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

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

231 World wool production, by country and type

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

a Includes Manchuria, Sinkiang and Tibet. **b** Albania, Bosnia and Herzegovina, Bulgaria, Czech and Slovak Federal Republics, Hungary, Serbia, Macedonia, Poland, Romania, Croatia and Slovenia. **c** Includes Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan. **d** Excluding Lesotho and Namibia. **na** Not available.

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

232 Stocks of raw wool and tops, by country ^a

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

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

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

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

	Australia kt	New Zealand kt	Argentina ^b kt	Uruguay ^c kt	South Africa kt	Total kt
1983-84	674	360	127	91	103	1 355
1984-85	750	374	115	62	100	1 401
1985-86	847	337	115	87	84	1 470
1986-87	935	364	138	101	81	1 619
1987-88	925	331	116	91	80	1 543
1988-89	872	329	85	80	83	1 448
1989-90	752	257	104	103	72	1 288
1990-91	715	254	94	107	86	1 256
1991-92	929	302	81	109	89	1 510
1992-93	867	240	81	92	66	1 346
1993-94	912	299	109	115	66	1 500
1994-95	814	291	95	68	63	1 331
1995-96	772	242	77	82	64	1 237
1996-97	860	250	83	104	20	1 316
1997-98	799	242	64	61	24	1 190
1998-99	683	211	36	59	25	1 014
1999-00	800	169	36	72	21	1 098
2000-01	850	174	36	74	21	1 155
2001-02	683	180	33	72	21	989
2002-03	502	179	31	74	20	806
2003-04	474	176	41	72	29	792
2004-05	513	na	na	na	na	na

^a Greasy equivalent. Includes raw, semiprocessed and wool on skins. For New Zealand and South Africa, does not include wool exported on skins. ^b October–September years to 1993-94; July–June years from 1994-95. ^c October–September years. **na** Not available.

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

234 Market prices for Australian wool, by category ^a

	1997-98 c/kg	1998-99 c/kg	1999-00 c/kg	2000-01 c/kg	2001-02 c/kg	2002-03 c/kg	2003-04 c/kg	2004-05 c/kg
19 micron	984.0	896.0	1 127.7	1 315.0	1 068.0	1 206.0	966.3	951.7
20 micron	842.0	683.0	754.6	784.0	850.0	1 150.9	913.4	839.8
21 micron	739.0	556.0	556.0	637.0	826.0	1 143.0	887.8	779.1
22 micron	681.0	517.0	474.6	597.0	824.0	1 133.9	865.1	742.5
23 micron	600.0	495.0	432.6	570.0	820.0	1 119.3	841.6	715.4
24 micron	581.0	486.0	423.9	554.0	815.0	1 096.2	811.4	673.8
25 micron	567.0	470.0	408.4	521.0	790.0	1 035.7	762.7	620.8
30 micron	484.0	400.0	351.4	444.0	585.0	595.6	430.9	451.7
Eastern market indicator	733.2	550.2	627.0	764.0	841.0	1 049.0	820.0	746.0
Western market indicator	668.5	475.0	499.8	641.0	764.5	1 026.6	793.2	727.2

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

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