



AGRICULTURE

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) FRI 18 SEPT 1998

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- For further information about these and related statistics, contact Nigel Gibson on Hobart 03 6222 5939, or any ABS office shown on the back cover of this publication.

NOTES

SYMBOLS AND OTHER USAGES	al	alcohol
	ha	hectares
	kg	kilograms
	L	litres
	n.e.c.	not elsewhere classified
	n.e.i.	not elsewhere included
	n.p.	not available for publication but included in totals where applicable
	p	preliminary figures
	r	figure or series revised since previous issue
	SE	standard error
	t	tonnes
	..	not applicable
	*	subject to sampling variability too high for most practical purposes
	—	nil or rounded to zero



ABBREVIATIONS	ABARE	Australian Bureau of Agricultural and Resource Economics
	ABS	Australian Bureau of Statistics
	ACS	Agricultural Commodity Survey
	AER	Agro-Ecological Regions
	AFS	Agricultural Finance Survey
	ANZSIC	Australian and New Zealand Standard Industrial Classification
	ASIC	Australian Standard Industrial Classification
	EVAO	Estimated Value of Agricultural Operations
	f.o.b.	free on board
	GDP	Gross Domestic Product
	GFP	Gross Farm Product
	IPD	Implicit Price Deflator
	IRDB	Integrated Regional Database
	VACP	Value of Agricultural Commodities Produced

T.J. Skinner
Acting Australian Statistician

SECTION 1

AGRICULTURE AND THE AUSTRALIAN ECONOMY

OVERVIEW

While the number of agricultural establishments has been steadily declining in recent years, agriculture still occupies an important place in Australian industry. In particular, it has a major influence on downstream economic activity and is a significant contributor to Australia's merchandise exports.

Australian agriculture also occupies an important place in global rural trade, particularly in Asian countries, where many new markets have been forged in recent times for our wheat, beef, fruit, sugar and dairy produce.

A strong performance by the cropping sector, highlighted by a record wheat crop, together with improved commodity prices for livestock products such as wool, led to continued growth in the agricultural sector in 1996–97. Highlights included:

- the gross value of agricultural production was \$28,039 million, up 3.0% on the previous year;
- Gross farm product (GFP) was 3.0% of gross domestic product (GDP);
- the agricultural sector employed 379,500 persons; and
- rural exports amounted to \$22,739 million, representing 28.3% of the total value of Australia's merchandise exports.

GROSS VALUE OF AGRICULTURAL PRODUCTION

The gross value of agricultural commodities produced rose 3.0% to \$28,039 million. This was mainly due to a strong performance in the value of crops, complemented by a 1.0% increase in the gross values of livestock products.

The increase in gross value of production of crops was primarily due to the increase in the value of wheat harvested, up 13.3% to \$4,878 million. Cotton and sugar were also major contributors, contributing \$1,342 million (8.3%) and \$1,186 million (7.4%) respectively.

The gross value of total livestock slaughterings fell marginally to \$6,190 million, even though the number of livestock slaughterings increased in all groupings except sheep and pigs (which recorded small decreases).

The gross value of livestock products produced increased by 1.0% to \$5,754 million, primarily due to an increase in the gross value of wool of 2.8% to \$2,621 million. This increase followed a fall of 23.2% in the gross value of wool in 1995–96 as a result of a decline of wool production and a drop in the average unit value.

GROSS VALUE OF AGRICULTURAL PRODUCTION

	AUST.			1996-97.....							
	1994-95	1995-96r	1996-97	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Crops (incl. pastures and grasses)	11 131.7	15 330.5	16 137.6	4 923.0	2 527.4	3 508.8	2 067.2	2 762.0	317.2	29.2	2.8
Livestock slaughterings and other disposals(a)	6 618.8	6 192.7	6 190.1	1 709.8	1 419.6	1 613.9	416.6	685.1	117.1	226.1	1.9
Livestock products(b)	5 995.0	5 707.3	5 753.6	1 629.3	2 115.5	554.4	472.7	749.3	225.8	n.p.	6.5
Total agriculture(c)	23 754.8	27 242.0	28 089.7	8 262.1	6 062.5	5 677.1	2 956.5	4 196.4	660.1	263.8	11.2

(a) Incomplete; excludes pigs and poultry slaughterings in the Northern Territory.

(b) Excludes the Northern Territory.

(c) Includes pigs, poultry slaughterings and livestock products in the Northern Territory.

GROSS FARM PRODUCT

GFP in 1996-97 increased in both current and constant price terms, by 7.8% and 9.2% respectively, reflecting the continued improvement in the level of production of grains, a high contributor to GFP. The difference between the two measures reflects a slight weakening in average prices compared to the previous year.

The farm sector's direct contribution to GDP in 1996-97 was 3.0%, down 0.4 percentage points on the level recorded in 1995-96.

GROSS FARM PRODUCT

	AUST.		
	1994-95r	1995-96r	1996-97
	\$m	\$m	\$m
Current prices	10 920	14 364	15 478
Average 1989-90	12 438	17 050	18 620

EMPLOYMENT

There was a small increase in the level of employment in the agricultural sector during 1996–97, following the small rise in 1995–96. The overall level of employment has remained relatively constant over many years.

EMPLOYMENT(a), Agriculture Sector

AUST.	1996–97.....								
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.
	'000	'000	'000	'000	'000	'000	'000	'000	'000
Males	241.6	255.0	259.4	71.0	65.2	56.5	30.7	27.3	7.5
Females	115.9	117.9	120.1	31.6	30.7	25.7	14.0	13.7	3.8
Persons	357.5	372.9	379.5	102.6	95.9	82.2	44.8	41.0	11.3

(a) *Labour Force, Australia* (Cat. no. 6203.0).

RURAL EXPORTS

The value of rural exports increased by 6.8% to \$22,739 million during 1996–97. Cereal grains and cereal preparations, with a combined increase of 20.9% to \$5,954 million, were the commodities contributing most to this increase. This was due to the high level of grain production during the year. The increase in the value of grain exports was offset by a reduction in the value of meat and meat preparation exports, down 10.2% to \$2,957 million.

Since 1990–91 the value of rural exports has increased by 62.2%. The commodities contributing most to this increase were cereals, with an increase of 144.4% to \$5,954 million, and sugar, which rose by 78.7% to \$1,694 million. Meat and meat preparations is currently 6.8% lower than in 1990–91. The proportion of total exports represented by rural exports has remained relatively constant over that period, between 27.0% and 29.0%.

RURAL MERCHANDISE(a), Exports f.o.b.

Commodity	1990–91	1991–92	1992–93	1993–94	1994–95	1995–96	1996–97
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Rural exports f.o.b.							
Meat and meat preparations	3 173	3 434	3 750	4 043	3 654	3 292	2 957
Cereal grains and cereal preparations	2 436	2 352	2 954	3 205	2 523	4 926	5 954
Sugar, sugar preparations and honey	948	747	1 072	1 315	1 730	1 712	1 694
Wool and sheepskins	2 887	3 829	3 367	3 369	4 216	3 664	3 744
Other rural	4 578	5 241	5 937	6 513	6 922	7 706	8 390
<i>Total rural</i>	<i>14 022</i>	<i>15 603</i>	<i>17 080</i>	<i>18 445</i>	<i>19 045</i>	<i>21 300</i>	<i>22 739</i>
Non-rural	38 133	39 271	42 942	45 377	47 401	54 006	57 655
Total exports f.o.b.	52 155	54 874	60 022	63 822	66 446	75 306	80 394

(a) Data are for merchandise on a balance of payments basis.

SECTION 2

STRUCTURE OF AGRICULTURAL INDUSTRY ...

OVERVIEW

The number of establishments with agricultural activity with an Estimated Value of Agricultural Operations (EVAO) of \$5,000 or more fell by 1.0% to 145,086 between 1 April 1996 and 31 March 1997. This fall was greater than in 1995–96 when the number of establishments with agricultural activity decreased by 0.3%. The fall continued the downward trend of recent years. The State with the largest decrease was Queensland, down 3.7%, followed by Tasmania with a fall of 2.2%. New South Wales recorded an increase in the number of establishments with agricultural activity, up 0.6% to 42,758.

Note: A fall in the total number of establishments does not necessarily mean that all those establishments have ceased operations or have been taken over by other establishments; some of these farms may have moved out of scope of the Census due to changes in their operations and less favourable economic performance and they may become in scope of the collection in following years.

INDUSTRY ANALYSIS

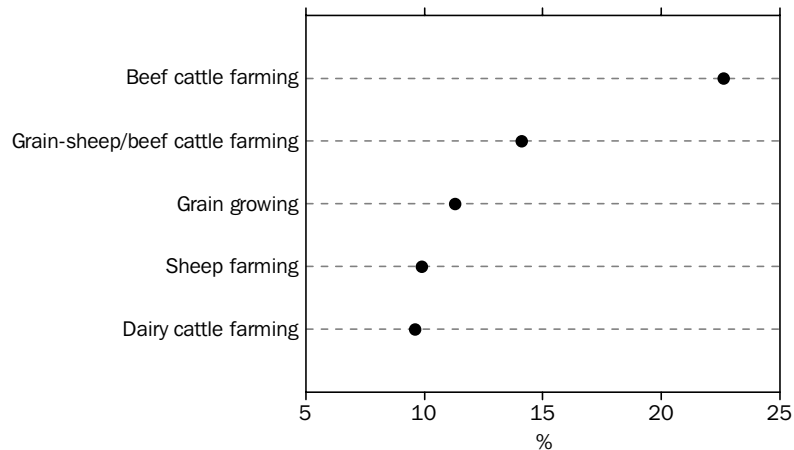
As favourable crop producing conditions continued in 1996–97, the number of establishments classified to the grain growing and grain-sheep/beef industries rose by 11.6% and 10.5% respectively. Industries in which numbers declined included the sheep, beef and sheep-beef sectors, reflecting increased grain growing activity by many farms that had previously been predominantly livestock producers.

The number of establishments classified to sheep-beef cattle farming fell 13.0% to 9,621, while the number classified to beef cattle farming fell 6.2%. Other industries to record declining numbers were the deer and pig industries which suffered decreases of 42.8% and 10.4% respectively.

In the year ended 31 March 1997, the beef cattle farming industry remained the largest industry in terms of farm numbers, accounting for 22.6% (32,822) of total establishments with agricultural activity. Queensland had the largest number of establishments classified to the beef cattle farming industry with 10,924 (33.3% of all establishments classified to beef cattle), followed by New South Wales with 9,821 (29.9%) and Victoria 7,766 (23.7%).

The next largest industry was the mixed farming sector, grain-sheep/beef cattle farming. It accounted for 20,517 establishments at 31 March 1997, of which 8,071 (39.3%) were in New South Wales.

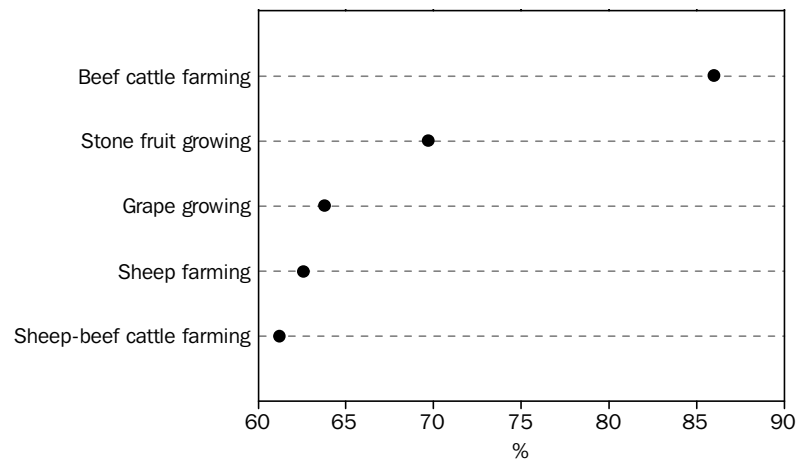
ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY: Industry breakup



SIZE OF OPERATIONS ANALYSIS

Over half (52.4% or 76,072) of agricultural establishments had an Estimated Value of Agricultural Operations (EVAO) of less than \$100,000 in 1996–97. Major industries dominated by smaller producers included beef cattle farming (86.0%), sheep farming (62.6%) and sheep-beef cattle farming (61.2%). Small farms also dominated the grape growing industry, with 63.8% (3,193) below the \$100,000 level, compared with 58.3% in 1995–96. In 1994–95, 70.5% of establishments classified to grape growing had an EVAO less than \$100,000.

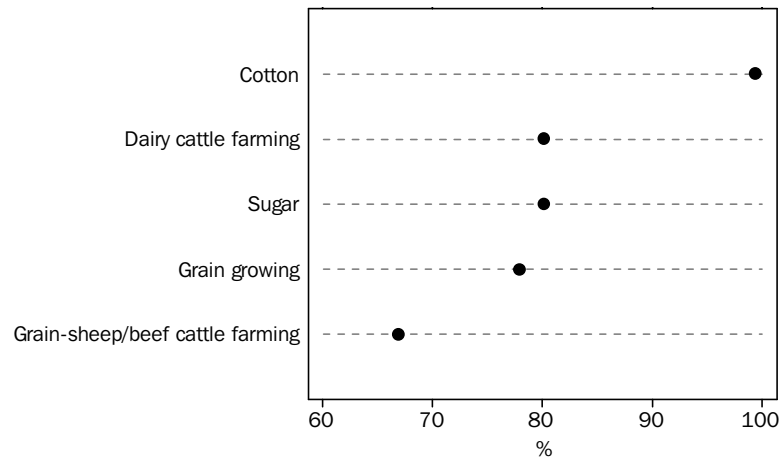
EVAO LESS THAN \$100,000: Industry breakup



Since 1975–76, the proportion of farms with EVAO greater than \$100,000 has increased from 5.4% (9,695) to 47.6% (69,014) of all agricultural establishments in 1996–97. Industries dominated by these larger farms included cotton growing with 99.4% (960), poultry farming (meat) 92.3% (686), dairy cattle farming 80.1% (11,197), sugar cane growing 80.1% (4,022), poultry farming (eggs) 78.7% (398), grain growing 77.9% (12,744), apple and pear growing 69.9% (886), grain-sheep/beef cattle farming 66.9% (13,733) and vegetable growing 58.9% (2,827).

There were 803 (83.1%) establishments classified to cotton growing with an EVAO greater than \$500,000, reflecting the scale of operations of cotton farms.

EVAO GREATER THAN \$100,000: Industry breakup

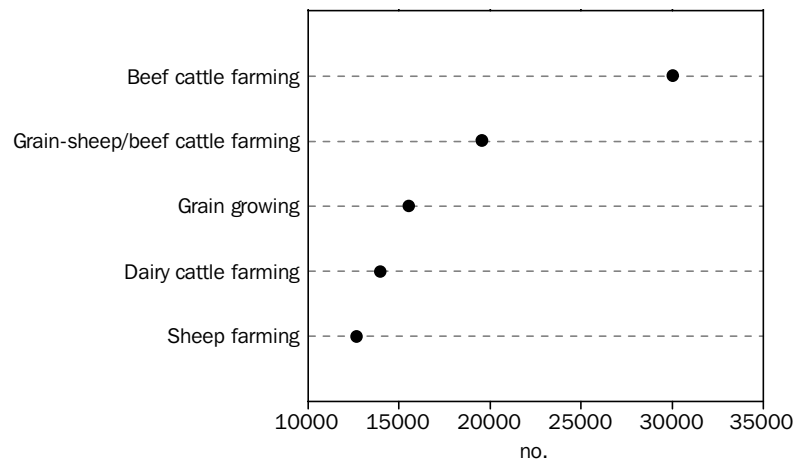


AREA OF OPERATIONS ANALYSIS

Farms with an area of less than 2,500 hectares represented 90.5% (131,363) of total establishments with agricultural activity. Apple and pear growing 100.0% (1,267), stone fruit growing 99.9% (1,371), plant nurseries 99.8% (2,074) and dairy cattle farming 99.8% (13,947), were the industries dominated by small farms in terms of area.

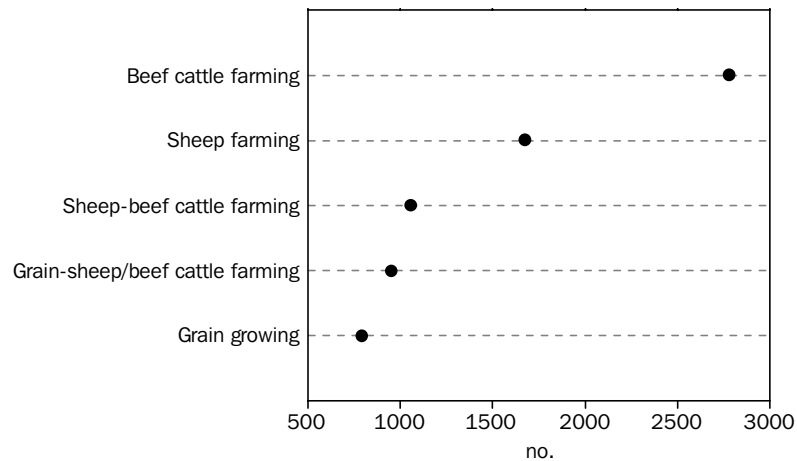
A significant number of farms classified to beef cattle farming (23,080 or 70.3%) operated an area of less than 500 hectares.

AREA OF HOLDING LESS THAN 2,500 HECTARES: Industry breakup



Farms with an area of 2,500 hectares or more represented only 9.5% (13,723) of total establishments with agricultural activity. Establishments classified to grain growing, grain-sheep/beef cattle farming, sheep-beef cattle farming, sheep farming and beef cattle farming dominated in this size category.

AREA OF HOLDING MORE THAN 2,500 HECTARES: Industry breakup



ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, Years ended 31 March

Establishments(a)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
1987(b)	37 355	34 383	25 860	15 369	13 852	3 637	290	68	130 814
1988	50 687	41 827	36 272	18 081	15 827	5 250	307	88	168 339
1989	50 791	40 995	36 059	18 258	16 106	5 311	307	107	167 934
1990(b)	37 539	33 306	26 619	14 636	13 410	3 699	257	73	129 539
1991(b)	36 812	32 620	25 364	14 482	13 202	3 563	270	79	126 392
1992	44 443	39 170	33 181	17 511	14 790	4 884	302	99	154 380
1993	43 227	37 773	33 531	17 386	14 910	4 719	322	98	151 966
1994	42 817	37 330	34 268	16 345	14 555	4 663	316	95	150 389
1995	42 287	37 070	32 849	15 952	13 973	4 554	337	93	147 115
1996	42 497	36 905	32 186	15 939	13 987	4 640	355	103	146 612
1997	42 758	36 656	30 987	15 817	13 872	4 536	357	103	145 086

(a) See Explanatory Notes, paragraph 10.

(b) Not adjusted for changes in EVAO cutoff, see Explanatory Notes, paragraphs 3 and 4.

ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, By State—As at 31 March 1997

ANZSIC code	Description	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
0111	Plant nurseries	729	318	685	128	147	43	20	4	2 074
0112	Cut flower and flower seed growing	238	233	192	125	147	48	6	—	989
0113	Vegetable growing	706	1 001	1 367	535	549	627	12	2	4 799
0114	Grape growing	837	1 901	98	1 802	294	72	—	1	5 008
0115	Apple and pear growing	222	427	106	128	218	164	—	2	1 267
0116	Stone fruit growing	461	245	99	359	184	23	—	1	1 372
0117	Kiwi fruit growing	20	8	7	—	4	—	—	—	39
0119	Fruit growing n.e.c.	1 839	386	2 097	671	309	38	66	2	5 408
0121	Grain growing	4 599	3 014	2 240	3 882	2 593	20	4	—	16 352
0122	Grain-sheep/beef cattle farming	8 071	3 308	2 165	2 822	4 056	94	1	—	20 517
0123	Sheep-beef cattle farming	3 917	2 795	925	956	568	438	—	22	9 621
0124	Sheep farming	5 043	4 749	748	1 502	1 602	673	—	29	14 346
0125	Beef cattle farming	9 821	7 766	10 924	1 090	1 873	1 106	218	24	32 822
0130	Dairy cattle farming	2 031	8 064	1 825	821	460	773	—	1	13 975
0141	Poultry farming (meat)	328	167	110	68	55	14	1	—	743
0142	Poultry farming (eggs)	141	118	98	44	84	14	5	2	506
0151	Pig farming	327	192	376	145	111	35	1	—	1 187
0152	Horse farming	622	401	509	101	113	55	—	2	1 803
0153	Deer farming	59	63	39	26	15	20	—	—	222
0159	Livestock farming n.e.c.	661	464	317	142	114	54	5	2	1 759
0161	Sugar cane growing	467	—	4 555	—	1	—	—	—	5 023
0162	Cotton growing	497	—	469	—	—	—	—	—	966
0169	Crop and plant growing n.e.c.	233	376	474	111	56	73	10	—	1 333
	<i>Total (ANZSIC Code 01)</i>	<i>41 869</i>	<i>35 996</i>	<i>30 425</i>	<i>15 458</i>	<i>13 553</i>	<i>4 384</i>	<i>352</i>	<i>94</i>	<i>142 131</i>
02	Services to agriculture; hunting and trapping	82	61	36	46	41	11	—	—	277
03	Forestry and logging	13	2	8	—	4	16	—	—	43
04	Commercial fishing	1	1	2	6	12	5	—	—	27
	<i>Total (ANZSIC Division A)</i>	<i>41 965</i>	<i>36 060</i>	<i>30 471</i>	<i>15 510</i>	<i>13 610</i>	<i>4 416</i>	<i>352</i>	<i>94</i>	<i>142 478</i>
B	Mining	10	3	4	—	5	—	—	—	25
C	Manufacturing	73	46	13	41	27	5	—	—	205
D	Electricity, gas and water supply	—	2	—	—	—	—	—	—	2
E	Construction	65	71	47	29	24	19	—	—	255
F	Wholesale trade	69	40	25	17	14	5	—	—	170
G	Retail trade	37	21	29	13	10	10	1	2	123
H	Accommodation, cafes and restaurants	19	11	8	5	11	6	—	—	60
I	Transport and storage	68	92	40	48	30	20	—	—	298
J	Communication services	1	—	—	—	—	—	—	—	1
K	Finance and insurance	9	—	1	3	1	1	—	—	15
L	Property and business services	69	16	42	20	20	7	—	1	175
M	Government administration and defence	8	—	—	—	—	—	—	—	8
N	Education	13	—	8	2	15	5	1	1	45
O	Health and community services	7	2	7	1	2	—	—	—	19
P	Cultural and recreational services	17	16	3	5	5	2	—	1	49
Q	Personal and other services	6	2	9	2	6	1	—	—	26
	Unclassified	322	274	280	121	92	36	3	4	1 132
	Total all industries	42 758	36 656	30 987	15 817	13 872	4 536	357	103	145 086

ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, By EVAO—As at 31 March 1997

		EVAO (\$'000).....											
ANZSIC code	Description	Less	22.5-	30.0--	40.0-	50.0-	60.0-	75.0--	100.0-	150.0-	200.0-	500.0	Total establish- ments
		than 22.5	29.9	39.9	49.9	59.9	74.9	99.9	149.9	199.9	499.9	or more	
0111	Plant nurseries	293	107	86	180	103	85	292	223	196	353	156	2 074
0112	Cut flower and flower seed growing	185	56	82	70	43	75	136	108	66	112	56	989
0113	Vegetable growing	568	200	226	213	176	250	339	497	401	1 102	827	4 799
0114	Grape growing	712	322	414	350	335	443	617	720	394	548	153	5 008
0115	Apple and pear growing	83	33	52	38	34	56	85	170	137	332	247	1 267
0116	Stone fruit growing	290	107	130	83	87	132	127	143	78	143	52	1 372
0117	Kiwi fruit growing	22	2	3	2	1	2	2	1	—	2	2	39
0119	Fruit growing n.e.c.	1 117	339	399	298	251	361	467	592	387	832	365	5 408
0121	Grain growing	625	302	391	388	413	571	918	1 716	1 739	5 964	3 325	16 352
0122	Grain-sheep/beef cattle farming	996	540	725	773	738	1 163	1 849	3 210	2 600	6 128	1 795	20 517
0123	Sheep-beef cattle farming	1 549	623	736	625	552	792	1 015	1 305	803	1 352	269	9 621
0124	Sheep farming	2 580	970	1 077	930	842	1 131	1 449	2 001	1 194	1 845	327	14 346
0125	Beef cattle farming	16 323	3 090	2 787	1 835	1 349	1 408	1 451	1 616	830	1 513	620	32 822
0130	Dairy cattle farming	292	179	247	231	291	466	1 072	2 827	2 656	5 080	634	13 975
0141	Poultry farming (meat)	20	3	5	8	4	10	7	40	50	287	309	743
0142	Poultry farming (eggs)	39	7	6	11	12	10	23	33	47	146	172	506
0151	Pig farming	100	40	41	41	30	47	74	149	118	313	234	1 187
0152	Horse farming	763	212	188	141	86	98	107	87	60	50	11	1 803
0153	Deer farming	145	13	25	13	5	11	4	2	1	3	—	222
0159	Livestock farming n.e.c.	837	164	188	124	81	91	75	81	36	54	28	1 759
0161	Sugar cane growing	48	39	77	78	110	192	457	987	788	1 764	483	5 023
0162	Cotton growing	—	—	1	—	—	3	2	6	21	130	803	966
0169	Crop and plant growing n.e.c.	275	83	76	83	68	78	98	181	102	203	86	1 333
	Total (ANZSIC Code 01)	27 862	7 431	7 962	6 515	5 611	7 475	10 666	16 695	12 704	28 256	10 954	142 131
02	Services to agriculture; hunting and trapping	124	27	18	12	18	14	17	14	9	17	7	277
03	Forestry and logging	23	1	3	4	4	—	2	1	2	1	2	43
04	Commercial fishing	15	—	3	—	1	—	1	3	1	3	—	27
	Total (ANZSIC Division A)	28 024	7 459	7 986	6 531	5 634	7 489	10 686	16 713	12 716	28 277	10 963	142 478
B	Mining	11	1	1	3	2	2	—	1	1	2	1	25
C	Manufacturing	57	13	16	11	3	13	14	18	16	25	19	205
D	Electricity, gas and water supply	—	—	—	—	—	—	—	—	—	—	2	2
E	Construction	138	31	21	12	8	13	9	9	4	7	3	255
F	Wholesale trade	41	10	11	8	13	10	15	22	16	14	10	170
G	Retail trade	54	8	7	11	5	4	13	9	6	5	1	123
H	Accommodation, cafes and restaurants	31	4	7	3	5	1	1	3	2	2	1	60
I	Transport and storage	146	22	37	13	12	15	11	14	10	12	6	298
J	Communication services	1	—	—	—	—	—	—	—	—	—	—	1
K	Finance and insurance	13	1	—	1	—	—	—	—	—	—	—	15
L	Property and business services	66	14	17	10	6	8	11	10	8	22	3	175
M	Government administration and defence	—	—	—	—	—	—	2	1	2	2	1	8
N	Education	5	2	2	—	3	5	3	2	3	12	8	45
O	Health and community services	5	3	—	—	2	—	1	4	1	3	—	19
P	Cultural and recreational services	30	2	4	1	2	1	4	2	1	1	1	49
Q	Personal and other services	4	1	—	1	1	2	—	4	1	8	4	26
	Unclassified	1 132	—	—	—	—	—	—	—	—	—	—	1 132
	Total all industries	29 758	7 571	8 109	6 605	5 696	7 563	10 770	16 812	12 787	28 392	11 023	145 086

ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, By Area—As at 31 March 1997

		AREA (hectares).....							
ANZSIC code	Description	0– 49	50– 99	100– 499	500– 999	1 000– 2 499	2 500– 4 999	5 000– 9 999	10 000– 24 999
0111	Plant nurseries	1 787	127	136	12	9	—	3	—
0112	Cut flower and flower seed growing	778	86	98	15	9	3	—	—
0113	Vegetable growing	2 414	790	1 289	182	98	18	4	2
0114	Grape growing	4 202	352	385	39	25	1	1	2
0115	Apple and pear growing	805	225	211	24	2	—	—	—
0116	Stone fruit growing	1 114	133	109	10	5	1	—	—
0117	Kiwi fruit growing	27	6	6	—	—	—	—	—
0119	Fruit growing n.e.c.	4 040	708	549	62	36	6	3	1
0121	Grain growing	234	544	4 722	3 704	4 436	1 917	655	112
0122	Grain-sheep/beef cattle farming	137	459	5 525	5 420	6 071	1 950	621	266
0123	Sheep-beef cattle farming	264	584	3 716	1 954	1 596	447	258	405
0124	Sheep farming	461	855	5 773	3 039	2 036	506	354	584
0125	Beef cattle farming	4 338	5 584	13 158	3 271	2 545	1 147	827	849
0130	Dairy cattle farming	1 289	3 080	8 774	652	152	20	3	3
0141	Poultry farming (meat)	576	67	82	13	5	—	—	—
0142	Poultry farming (eggs)	370	43	67	12	12	1	1	—
0151	Pig farming	359	193	445	107	66	8	5	3
0152	Horse farming	818	386	500	59	23	10	5	1
0153	Deer farming	103	42	66	7	3	—	—	1
0159	Livestock farming n.e.c.	1 397	136	159	33	19	5	2	3
0161	Sugar cane growing	1 092	1 654	2 037	149	59	16	12	4
0162	Cotton growing	7	13	281	201	257	117	61	21
0169	Crop and plant growing n.e.c.	470	306	433	79	33	8	1	1
	<i>Total (ANZSIC Code 01)</i>	<i>27 082</i>	<i>16 373</i>	<i>48 521</i>	<i>19 044</i>	<i>17 497</i>	<i>6 181</i>	<i>2 816</i>	<i>2 258</i>
02	Services to agriculture; hunting and trapping	80	56	94	25	14	1	2	2
03	Forestry and logging	7	8	18	2	4	3	1	—
04	Commercial fishing	7	1	10	1	6	1	1	—
	<i>Total (ANZSIC Division A)</i>	<i>27 176</i>	<i>16 438</i>	<i>48 643</i>	<i>19 072</i>	<i>17 521</i>	<i>6 186</i>	<i>2 820</i>	<i>2 260</i>
B	Mining	4	3	11	3	2	1	1	—
C	Manufacturing	103	34	47	12	7	2	—	—
D	Electricity, gas and water supply	—	—	—	—	—	—	1	1
E	Construction	97	47	84	19	6	1	—	1
F	Wholesale trade	117	13	31	4	5	—	—	—
G	Retail trade	97	7	10	4	2	2	—	1
H	Accommodation, cafes and restaurants	21	10	21	3	2	1	—	—
I	Transport and storage	78	52	131	21	11	3	2	—
J	Communication services	—	—	—	1	—	—	—	—
K	Finance and insurance	4	4	5	2	—	—	—	—
L	Property and business services	49	33	49	15	17	6	4	1
M	Government administration and defence	—	1	3	3	—	1	—	—
N	Education	5	3	17	3	10	2	2	1
O	Health and community services	8	4	4	2	1	—	—	—
P	Cultural and recreational services	18	12	14	4	—	1	—	—
Q	Personal and other services	5	2	6	5	4	—	—	1
	Unclassified	480	167	324	64	46	10	9	15
	Total all industries	28 262	16 830	49 400	19 237	17 634	6 216	2 839	2 281

ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, By Area—As at 31 March 1997 *continued*

		AREA (hectares).....					Total establishments
ANZSIC code	Description	25 000– 49 999	50 000– 99 999	100 000– 199 999	200 000– 499 999	500 000 or more	
0111	Plant nurseries	—	—	—	—	—	2 074
0112	Cut flower and flower seed growing	—	—	—	—	—	989
0113	Vegetable growing	2	—	—	—	—	4 799
0114	Grape growing	—	—	—	1	—	5 008
0115	Apple and pear growing	—	—	—	—	—	1 267
0116	Stone fruit growing	—	—	—	—	—	1 372
0117	Kiwi fruit growing	—	—	—	—	—	39
0119	Fruit growing n.e.c.	3	—	—	—	—	5 408
0121	Grain growing	23	5	—	—	—	16 352
0122	Grain-sheep/beef cattle farming	49	12	7	—	—	20 517
0123	Sheep-beef cattle farming	239	84	35	35	4	9 621
0124	Sheep farming	334	195	120	83	6	14 346
0125	Beef cattle farming	354	206	165	283	95	32 822
0130	Dairy cattle farming	1	—	1	—	—	13 975
0141	Poultry farming (meat)	—	—	—	—	—	743
0142	Poultry farming (eggs)	—	—	—	—	—	506
0151	Pig farming	1	—	—	—	—	1 187
0152	Horse farming	1	—	—	—	—	1 803
0153	Deer farming	—	—	—	—	—	222
0159	Livestock farming n.e.c.	3	2	—	—	—	1 759
0161	Sugar cane growing	—	—	—	—	—	5 023
0162	Cotton growing	5	2	1	—	—	966
0169	Crop and plant growing n.e.c.	—	2	—	—	—	1 333
	<i>Total (ANZSIC Code 01)</i>	<i>1 015</i>	<i>508</i>	<i>329</i>	<i>402</i>	<i>105</i>	<i>142 131</i>
02	Services to agriculture; hunting and trapping	—	2	—	1	—	277
03	Forestry and logging	—	—	—	—	—	43
04	Commercial fishing	—	—	—	—	—	27
	<i>Total (ANZSIC Division A)</i>	<i>1 015</i>	<i>510</i>	<i>329</i>	<i>403</i>	<i>105</i>	<i>142 478</i>
B	Mining	—	—	—	—	—	25
C	Manufacturing	—	—	—	—	—	205
D	Electricity, gas and water supply	—	—	—	—	—	2
E	Construction	—	—	—	—	—	255
F	Wholesale trade	—	—	—	—	—	170
G	Retail trade	—	—	—	—	—	123
H	Accommodation, cafes and restaurants	—	1	—	1	—	60
I	Transport and storage	—	—	—	—	—	298
J	Communication services	—	—	—	—	—	1
K	Finance and insurance	—	—	—	—	—	15
L	Property and business services	1	—	—	—	—	175
M	Government administration and defence	—	—	—	—	—	8
N	Education	1	1	—	—	—	45
O	Health and community services	—	—	—	—	—	19
P	Cultural and recreational services	—	—	—	—	—	49
Q	Personal and other services	—	2	—	1	—	26
	Unclassified	4	3	4	6	—	1 132
	Total all industries	1 021	517	333	411	105	145 086

SPECIAL ARTICLE — THE CHANGING FACE OF AUSTRALIAN AGRICULTURE

INTRODUCTION

Approaching the end of the 20th century, the pastoral and grain growing industries dominate Australian farming. These industries account for almost three-quarters of farm establishments and the commodities they produced account for about 60% of the gross value of agricultural production. Milk, from the dairying industry, accounts for a further 10%.

At the broadest level, the basic structure of agriculture at the end of the century is very similar to the pattern at the start of the century in terms of the activities and commodities which dominate agricultural production. This article focuses briefly on changes which have occurred during the latter part of the century.

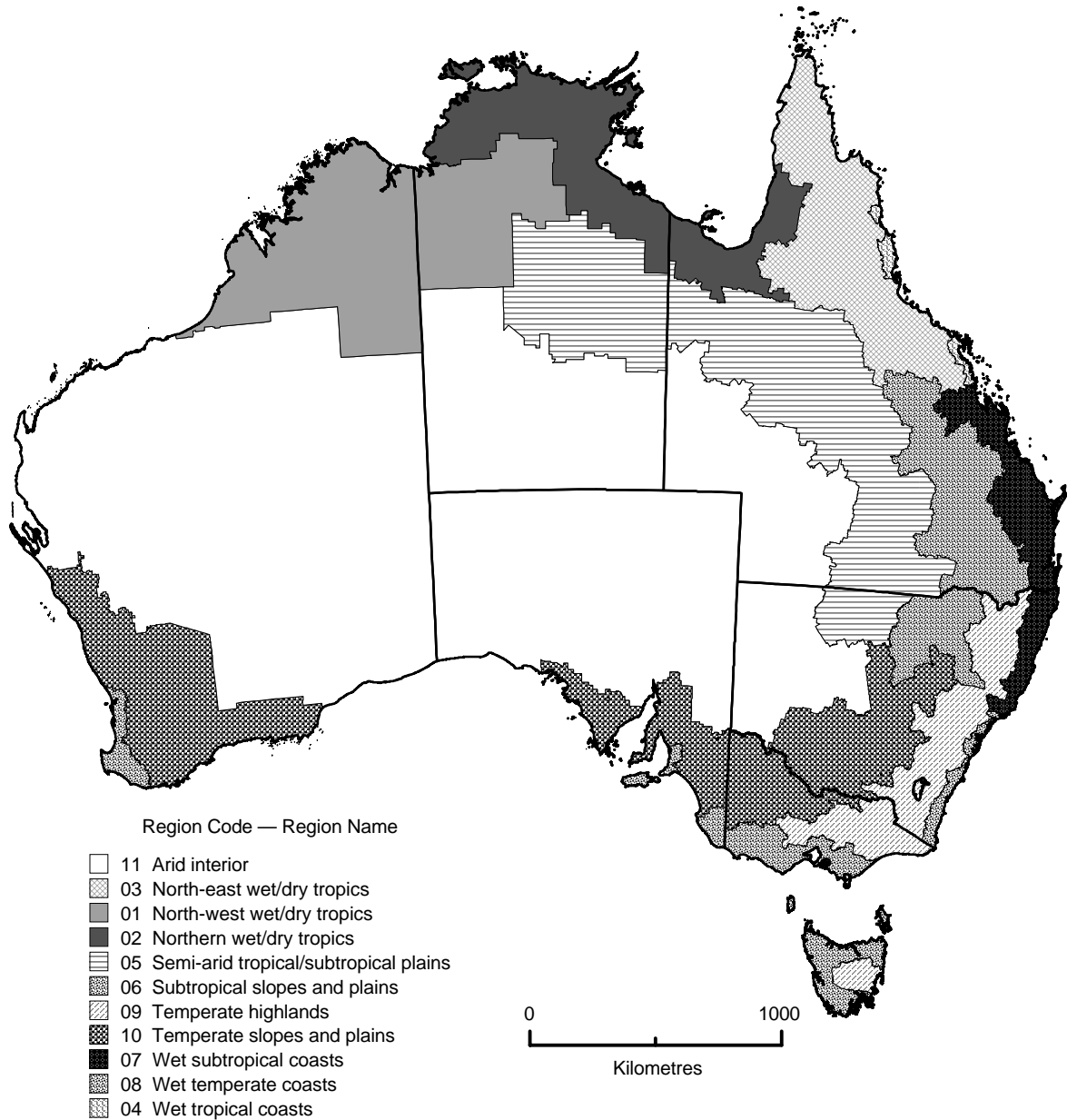
GEOGRAPHY OF AUSTRALIAN AGRICULTURE

The majority of agricultural land in Australia is devoted to the pastoral activities of sheep and beef. The key agricultural industries are located as follows:

- Cattle and sheep grazing is mainly carried out in inland New South Wales, Queensland, South Australia and Western Australia (apart from the Ord River irrigation area). The Gulf country of Queensland, the Northern Territory and the far north of Western Australia are exclusively cattle areas.
- Horticultural activities occur mainly in the irrigation area of the Murray-Darling basin, on the Darling Downs, and in the north west and east of Tasmania. While horticulture is a major rural industry, the total land area of horticultural activity is relatively insignificant when compared with grain growing and pastoralism.
- Extensive vineyards are to be found in the Hunter Valley (New South Wales), the Murray Darling irrigation area, Eden and Barossa Valleys in South Australia, south of Adelaide in the McClaren area, and in the Margaret River area of Western Australia. In recent years, grape growing has expanded into a number of regions not traditionally used for this activity.
- Grains are grown extensively in New South Wales, west of the Great Dividing Range, on the Darling Downs, in the Wimmera and Mallee areas of Victoria, Yorke and Eyre Peninsulas and eastward to the Murray region of South Australia. In Western Australia the grain belt extends in a broad band from the south-west, northward to around Geraldton.
- Sugar cane is grown extensively along the north Queensland coast and also on the north coast of New South Wales.

GEOGRAPHY OF AUSTRALIAN AGRICULTURE *continued*

The following map of Australia divides the nation into Agro-Ecological Regions (AER). In general terms the Temperate Slopes and Plains AER (region 10 in the map below) is the principal grain growing region of Australia, extending into the Semi Arid Tropical/Sub-tropical AER (region 5) and Sub Tropical AER (region 6), notably the Darling Downs in Queensland. AER regions 1, 2 and 3 are dominated by beef cattle farming.



SUMMARY OF MAIN CHANGES IN FINAL DECADES OF THIS CENTURY

Some of the significant changes that have occurred or are emerging in the final decades of the 20th century include:

- relative decline of commodity prices, due in part to subsidised agricultural output from major competitors in international markets;
- vertical integration of agricultural activity with manufacturing industries. This is particularly apparent in the grape growing and meat poultry farming industries. It is also of growing importance in beef cattle industry where feedlotting is often associated with abattoirs;
- increased mechanisation and capitalisation in farming activities, leading to larger farming units and farm amalgamations;
- in the post World War II era many new horticultural crops have emerged. Immigration in particular has given impetus to the introduction of a wide range of new horticultural commodities, both fruit and vegetables;
- for the wool industry, changes in world fibre demand, withdrawal of the floor price scheme and consequent fall in wool prices has led to a significant reduction in the national sheep flock;
- emergence of land care, sustainable agricultural practises and environmental issues;
- decline in relative importance of agriculture as an export earner, particularly due to the decline of the wool industry in the 1950s and 1960s; and
- reduced tariff protection as a result of the Uruguay round of General Agreement on Tariff and Trade (GATT) negotiations.

In the early to mid 1960s, the national sheep flock numbered around 165 million, fluctuating between 160 and 170 million. In the late 1960s it had climbed past the 170 million mark, reaching a total of 180 million in 1970. Numbers declined throughout the 1970s, and by the mid 1990s the flock had dropped to 120 million as a result of significantly reduced prices for wool.

In the mid 1960s the dairy cattle herd was approximately 4.8 million. However, by the mid 1990s the number had fallen to 2.7 million, largely as a result of the loss of traditional markets for dairy products and industry restructuring.

The beef cattle herd has shown considerable growth, from around 13.5 million in the mid 1960s to almost 24 million in 1997. Expansion has been in response to growth in the meat export trade, particularly to Japan, the United States of America and Korea. In recent years, live export trade in meat cattle to the Philippines and Indonesia has provided additional impetus to cattle numbers.

At the start of the 1970s, before industry restructuring and tree pull schemes emerged, there were 9.0 million apple and 2.5 million pear trees in total. The early 1970s saw the start of a significant decline in apple and pear orchards. By 1976, the number of apple trees had declined to 6.5 million and pear trees to 1.9 million. By 1997 apple trees numbered 5.7 million and pear trees 1.4 million. In contrast, the total area of grapevines expanded from 62,000 hectares in the mid 1970s to almost 90,000 hectares in 1997, a reflection of the expansion of the domestic wine market and substantial increases in exports of wine.

STRUCTURE

The structure of the agriculture industry can be analysed from several perspectives:

- size in terms of land area or Estimated Value of Agricultural Operations (EVAO);
- industry (ANZSIC class); and
- financial measures, e.g. turnover, value of assets.

SIZE STRUCTURE AS MEASURED BY ESTIMATED VALUE OF AGRICULTURAL OPERATIONS (EVAO)

Because of the many different activities undertaken within Australian agriculture, area alone is not the only meaningful measure of size. A 100 hectare vegetable growing farm's contribution to the value of agricultural output will not compare with value of output from a 100 hectare farm on which sheep are raised. The concept of EVAO provides a common denominator which relates to the relative size of the agricultural activity of each farm. It allows comparison across industries, agricultural activities and commodities.

About one-fifth of agricultural establishments have an EVAO of less than \$22,500. They contribute less than 5% to agricultural commodity production.

At the other end of the scale, the top 25% of agricultural establishments (measured in EVAO terms) generally account for 75 to 90% of the value of production. The following table highlights this aspect of Australian agriculture.

ESTABLISHMENTS NUMBER AND AREA, By EVAO Range—1996–97

<i>Item</i>	<i>Less than \$22 500</i>	<i>\$22 500 to \$49 999</i>	<i>\$50 000 to \$99 999</i>	<i>\$100 000 to \$199 999</i>	<i>\$200 000 to \$499 999</i>	<i>\$500 000 or more</i>	<i>Total</i>
Establishments							
Number	29 758	22 285	24 029	29 599	28 392	11 023	145 086
Percent	20.5	15.4	16.6	20.4	19.6	7.6	100.0
Area of holding							
'000 ha	11 549.5	14 891.5	30 700.8	65 184.5	142 133.6	201 692.1	466 152.1
Percent	2.5	3.2	6.6	14.0	30.5	43.3	100.0

STRUCTURE IN AREA AND INDUSTRY TERMS

Small farms (in area terms) dominate in the nursery/horticultural industries. This is to be expected as these industries remain relatively labour intensive but highly productive in terms of land use.

In 1977, 21% of farms (38,300) had an area less than 50 hectares. By 1997 the proportion was 20% (28,300). During this period, the distribution of farms based on physical size has changed, but only marginally. Overall, the proportion of farms of 1,000 hectares or larger rose from 18% in 1976–77 to 22% in 1996–97. The decrease in the number of farms over this period has been due to amalgamation of farm establishments rather than land being withdrawn from agriculture.

NUMBER OF AGRICULTURAL ESTABLISHMENTS

Area	1977.....		1997		CHANGE 1997 TO 1977.....	
	'000	%	'000	%	%	%
Less than 50 ha	38.3	20.6	28.3	19.5	-26.1	-5.3
50 to 99.9 ha	24.0	12.9	16.8	11.6	-30.0	-10.1
100 to 499.9 ha	65.8	35.4	49.4	34.0	-24.9	-4.0
500 to 999.9 ha	24.6	13.2	19.2	13.3	-22.0	0.8
1 000 to 4 999.9 ha	25.3	13.6	23.9	16.4	-5.5	20.6
5 000 to 9 999 ha	2.8	1.5	2.8	2.0	—	33.3
10 000 to 49 999 ha	3.8	2.0	3.3	2.3	-13.2	15.0
50 000 ha and more	1.3	0.7	1.4	0.9	7.7	28.6
Total area	185.9	100.0	145.1	100.0	-21.9	—

FARM FINANCIAL PERFORMANCE

Over the past two decades farming rates of return have declined significantly. In 1974–75, farm businesses showed averages for profit margin of 33%, return on farm costs of 48% and rate of return on farm assets of over 6%. In 1996–97 average profit margin had fallen to 22%, return on farm costs to 27% and return on assets to 5%. Over the past two decades total farm operating costs have increased sevenfold while cash operating surplus has increased only threefold.

Increases in costs, together with declining real commodity prices, have given impetus to amalgamation of small farms into larger, more economically viable units.

Two performance measures which help explain the move to larger farm businesses over the past two decades are return on farm operating costs and profit margin:

- Return on farm operating costs in the mid 1970s was 48%, across all industries. That is, for every dollar of operating cost, farm businesses generated 48 cents of cash operating surplus. In 1996–97, return on farm operating costs was 27%. In 1991–92, the first year that the removal of the wool floor price scheme fully impacted upon farming, return on operating costs was only 19%.
- For all agricultural industries, the average profit margin (cash operating surplus as a proportion of turnover) was 22% in 1996–97 (a good year for the grain industries). In 1991–92 it was 17%.

From an industry perspective, the overall structure of the sector has not changed in any marked way since the 1970s. Turnover in the broadacre industries has decreased from 62% to 60% during the period while the other major industries, horticulture, dairying and pigs, have increased their share from 10% to 13%; 10% to 12% and 2% to 3% respectively.

Results from the ABS Agricultural Finance Survey (AFS) also highlight the economic dominance of large agricultural businesses. In 1996–97 there were an estimated 106,100 farm businesses. Some 83,300 (78%) made less than \$300,000 in turnover. Their contribution to total turnover in the agricultural industry was 37% and they generated 38% of cash operating surplus. The proportion of farm businesses with a turnover of \$500,000 or more was 11% in 1996–97. These businesses accounted for just over 47% of turnover and cash operating surplus generated.

FARM BUSINESSES, By Size of Turnover—1996–97

Amount of turnover	Number		Turnover	Cash operating surplus
	'000	%	%	%
Less than \$300 000	83.3	78.4	37.1	38.1
\$300 000 to \$499 999	11.0	10.3	15.5	16.9
\$500,000 to \$999,999	8.3	7.9	20.5	21.9
\$1 000 000 or more	3.6	3.4	26.9	23.1
Total	106.1	100.0	100.0	100.0

The movement towards larger farming operations to offset the squeeze on returns and the high cost of capital equipment is well illustrated by the wheat growing industry. In 1983 the median area of wheat grown was 137 hectares, by 1997 it had increased to 154 hectares. More telling is the increase in the proportion of establishments growing 500 hectares or more of wheat. In 1982–83 just on 14% of wheat growers grew 500 hectares or more and accounted for 54% of the wheat area grown. In 1997, the proportion of establishments growing 500 hectares or more had increased to 18% and accounted for almost 62% of the area of wheat grown. The picture that emerges for the other major cereal grain crops is similar to that for wheat.

SUMMARY

In summary, although there has been growth in intensive agriculture and livestock activities, Australian agriculture as a whole continues to be dominated by the traditional grain-growing and pastoral activities. However, the need to rationalise farming businesses has become evident as profitability has fallen during the latter period of this century. Falling real commodity prices, together with increasing costs, have led to farm amalgamation and minor adjustments to industry structure.

SECTION 3

LAND MANAGEMENT

LAND USE

The area of land used for agricultural activity in 1996–97 totalled 466.2 million hectares or 60.7% of Australia's land mass. Queensland remained the State with the largest land area used for agriculture, with 151.1 million hectares (87.0% of the State) used for agricultural purposes, or 32.4% of the national total.

The area planted to crops increased 8.9% to 21.1 million hectares in 1996–97, while at the same time the area devoted to sown pastures and grasses increased 11.4% to 19.0 million hectares.

LAND USE, Area—Years ended 31 March

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha
CROPS(a)									
1995	3 433	2 296	2 056	2 991	6 182	77	4	—	17 040
1996	4 757	2 439	2 495	3 219	6 419	75	4	—	19 409
1997	5 589	2 552	2 685	3 279	6 950	73	5	—	21 133
SOWN PASTURES AND GRASSES									
1995	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
1996	r3 687	r3 936	r2 543	r2 008	r4 272	r612	19	r13	r17 090
1997	4 436	3 945	3 219	2 214	4 542	633	37	13	19 039
AGRICULTURAL LAND(c)									
1995	60 300	12 719	149 688	56 101	113 956	1 933	68 604	48	463 349
1996	61 009	12 768	149 748	56 901	114 521	1 949	68 276	50	465 221
1997	60 901	12 745	151 067	56 219	112 482	1 920	70 769	49	466 152
NON-AGRICULTURAL LAND(d)									
1995	19 843	10 041	23 012	42 337	138 594	4 897	66 016	195	304 935
1996	19 134	9 992	22 952	41 537	138 029	4 881	66 344	193	303 063
1997	19 242	10 015	21 633	42 219	140 068	4 910	63 851	194	302 133
TOTAL LAND									
1997	80 143	22 760	172 700	98 438	252 550	6 830	134 620	243	768 284

(a) Excludes pastures and grasses harvested for hay and seed which have been included in 'sown pastures and grasses'.

(b) Data not collected.

(c) Total area of establishments with an EVAO of \$5,000 or more.

(d) Comprises conserved land, forestry, urban and unused land such as vacant Crown land, commercially unused land on Aboriginal and other Crown reserves and waste land, ephemeral lakes, mangrove swamps etc. as well as establishments not included in Census (i.e. those with EVAO of below \$5,000).

NOTE: Agricultural land is generally divided into cropped land, land sown to pastures and grasses and a broad balance comprising grazing land, land lying idle or under fallow, etc. Agricultural land use presently occupies about 60.7% of Australia's land mass.

TREES PLANTED

Details regarding number of trees planted, seedlings sown and timber harvested were collected in the 1996–97 Agricultural Census.

During 1996–97 the number of seedlings planted for timber/pulp production has shown an increase of 35.5% to nearly 11 million seedlings. Victoria showed the largest increase in plantings up, 114.9% to over 2 million seedlings; South Australia increased 51.6% to 1 million seedlings. Queensland was the only State to record a decrease, down 8.7% to 200,000 seedlings. The area planted to seedlings increased by 36.5% to 9,700 hectares.

TREES PLANTED(a)—Years ended 31 March

	AUST.		1997.....							
	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Seedlings planted for timber/pulp										
Number planted ('000)	8 081	10 952	1 036	2 192	200	1 243	5 540	734	6	1
Area planted (ha)	6 985	9 681	1 173	2 047	253	1 044	4 611	545	9	—
Seedlings planted for other purposes										
Number planted ('000)	10 113	20 726	3 731	2 569	534	2 289	11 343	251	—	8
Area planted (ha)	25 510	71 862	17 890	10 093	2 084	8 074	33 021	513	5	182
Tree and shrub seed sown										
Seed sown (kg)	38 004	27 032	5 677	8 133	6 049	2 142	4 615	417	—	—
Area sown (ha)	21 204	15 035	2 491	5 627	2 688	1 647	2 531	52	—	—
Timber harvested										
Hardwood (t)	81 655	274 184	7 983	6 820	18 992	85	17 426	222 879	—	—
Softwood (t)	60 326	83 575	16 374	25 723	4 823	12 851	4 673	19 132	—	—

(a) Data in this table are an aggregation of responding establishments. No imputation has been made for non-responding establishments.

SPECIAL ARTICLE — AGRO/FARM FORESTRY

INTRODUCTION

The term 'forest' describes:

An area, incorporating all living and non-living components, that is dominated by trees having usually a single stem and a mature or potentially mature stand height exceeding 2 metres and with existing or potential crown cover of overstorey strata about equal to or greater than 20%.

This definition includes Australia's diverse native forests and plantations, regardless of age. It is also sufficiently broad to encompass areas of trees that are sometimes described as woodlands.

(Source: National Forest Inventory.)

The forests and wood products industries based on native and plantation forests contribute substantially to Australia's economy, especially employment in regional areas.

Forest vegetation cover protects the soil from water and wind erosion, reduces flooding and siltation of water bodies and maintains water quality. Forests provide habitats for a wide variety of native animals and plants. They also help to absorb greenhouse gases. Forest ecosystems provide a unique opportunity for scientific investigation; a source of food and medicines; and a resource base for education, tourism, recreation and other purposes.

AGRO/FARM FORESTRY

Agro/farm forestry is becoming increasingly important as a potential commercial source of wood. A broad range of programs have been implemented by government and private agencies to promote tree planting on Australian farms.

Many farming industries face declining productivity of cleared land because of land and water resource degradation and environmental effects of native vegetation clearing. Incorporating different forms of commercial tree growing into farming systems can help reverse land degradation, improving financial prospects as well as providing an expanded plantation for Australia's forest industries.

The ABS collected information on the planting of trees and harvesting of timber in the 1995–96 and 1996–97 Agricultural Censuses. The results of these collections are discussed below.

Tree plantings on agricultural land increased 74% between 1995–96 and 1996–97, with increases in all States. In proportional terms, the increase in both Victoria and South Australia exceeded 100% and almost 100% in New South Wales. In absolute terms, the largest increase occurred in Western Australia with an additional 6.1 million trees planted.

AGRO/FARM FORESTRY *continued*

On a regional basis, increases occurred in most of the 54 Statistical Divisions reporting tree plantings, the exceptions being Richmond-Tweed and Mid-North Coast in New South Wales, Moreton and Northern in Queensland, Outer Adelaide in South Australia and Mersey-Lyell in Tasmania.

Significant plantings occurred in the Murray and North-Western Statistical Divisions in New South Wales, Murray Lands and South East in South Australia and most Statistical Divisions in Western Australia.

On an industry basis, broadacre farmers planted 27.6 million trees over 71,800 hectares in 1996-97, with those engaged in the grain-sheep/beef cattle industry planting 9.0 million trees over 24,600 hectares.

Establishments classified to the grain growing industry planted 6.9 million trees over 20,200 hectares, while the sheep farming industry added a further 4.4 million trees over 9,500 hectares.

TREE PLANTINGS, By Statistical Division—As at 31 March

	1996	1997
	'000	'000
New South Wales		
Sydney	17.2	41.6
Hunter	62.6	219.8
Illawarra	15.3	80.5
Richmond-Tweed	321.7	276.5
Mid-North-Coast	136.0	113.4
Northern	154.3	453.8
North Western	326.1	741.1
Central West	311.1	489.8
South Eastern	267.9	679.5
Murrumbidgee	153.1	711.8
Murray	653.4	897.5
Far West	—	62.3
<i>Total</i>	2 418.7	4 767.5
Victoria		
Melbourne	81.4	193.3
Barwon	184.3	304.0
Western District	703.7	1 666.1
Central Highland	120.6	315.9
Wimmera	158.2	402.3
Mallee	82.7	321.5
Loddon	129.1	256.3
Goulburn	358.5	626.7
Ovens-Murray	44.8	227.7
East Gippsland	65.9	198.0
Gippsland	122.8	249.4
<i>Total</i>	2 052.0	4 761.2

TREE PLANTINGS, By Statistical Division—As At 31 March *continued*

	1996	1997
	'000	'000
.....		
Queensland		
Brisbane	6.1	17.0
Moreton	178.8	70.5
Wide Bay-Burnett	96.2	182.8
Darling Downs	57.0	65.6
South West	8.1	125.6
Fitzroy	3.9	63.3
Central West	—	1.1
Mackay	26.0	46.3
Northern	13.1	11.5
Far North	120.7	150.3
North West	—	0.7
Total	509.8	734.6
South Australia		
Adelaide	21.0	28.9
Outer Adelaide	432.0	361.1
Yorke and Lower	87.6	277.0
Murray Lands	354.5	732.6
South East	537.4	1 391.5
Eyre	133.6	458.4
Northern	49.1	282.6
Total	1 615.2	3 532.1
Western Australia		
Perth	40.0	125.0
South West	627.7	1 228.6
Lower Great South	4 151.2	5 181.2
Upper Great South	1 252.7	2 483.9
Midlands	2 785.4	5 113.3
South Eastern	858.0	1 139.2
Central	1 094.2	1 611.9
Pilbara	—	—
Kimberley	2.0	0.3
Total	10 811.0	16 883.3
Tasmania		
Greater Hobart	4.3	28.6
Southern	68.6	384.1
Northern	369.6	382.3
Mersey-Lyell	338.7	190.1
Total	781.1	985.1
Total Australia(a)	18 193.2	31 678.3

(a) Includes the Northern Territory and the Australian Capital Territory.

NUMBER OF TREES PLANTED, By Industry—As at 31 March

		AUST.(a)		1997.....					
		1996	1997	NSW	Vic.	Qld	SA	WA	Tas.
ANZSIC code	Description	'000	'000	'000	'000	'000	'000	'000	'000
0111	Plant nurseries	509.0	240.3	43.5	132.1	34.0	10.8	17.8	2.1
0112	Cut flower and flower seed growing	94.2	123.5	26.4	25.2	10.7	11.9	48.7	0.6
0113	Vegetable growing	160.3	305.0	17.8	45.4	20.2	54.3	56.6	110.7
0114	Grape growing	15.1	157.6	19.4	49.4	0.2	70.9	16.5	1.2
0115	Apple and pear growing	14.3	124.7	1.7	9.7	0.2	9.4	101.6	2.2
0116	Stone fruit growing	16.2	138.9	17.7	9.9	1.7	13.9	93.1	2.6
0117	Kiwi fruit growing	5.0	0.9	0.7	0.2	—	—	—	—
0119	Fruit growing n.e.c.	127.1	233.2	122.7	24.5	69.8	6.9	4.3	5.1
0121	Grain growing	3 306.5	6 890.0	652.1	165.5	14.4	914.0	5 120.3	23.6
0122	Grain-sheep/beef cattle farming	4 310.3	9 041.9	1 392.7	517.2	187.8	818.6	6 101.9	23.7
0123	Sheep-beef cattle farming	1 190.5	3 464.9	521.1	1 028.4	3.9	624.7	1 004.9	282.8
0124	Sheep farming	3 660.5	4 447.2	525.2	970.2	1.0	354.5	2 412.1	184.4
0125	Beef cattle farming	2 545.8	3 710.4	815.4	960.1	167.1	493.2	1 150.7	123.8
0130	Dairy cattle farming	618.6	1 084.7	133.6	561.6	36.8	65.4	128.2	159.3
0141	Poultry farming (meat)	6.3	40.4	4.2	14.0	7.9	0.5	13.1	0.6
0142	Poultry farming (eggs)	0.5	3.5	1.7	1.1	0.3	0.1	0.1	0.2
0151	Pig farming	93.1	98.8	13.2	12.3	1.6	31.4	40.3	—
0152	Horse farming	14.8	139.6	86.5	31.6	6.7	6.5	7.1	1.3
0153	Deer farming	20.0	25.4	2.2	11.3	4.3	5.2	2.1	0.3
0159	Livestock farming n.e.c.	109.3	55.5	6.1	19.9	6.0	9.2	12.4	2.0
0161	Sugar cane growing	58.2	38.7	2.8	—	35.9	—	—	—
0162	Cotton growing	27.9	283.7	276.1	—	7.5	—	—	—
0169	Crop and plant growing n.e.c.	61.9	165.4	13.6	23.5	97.0	5.4	22.1	3.8
	<i>Total (ANZSIC Code 01)</i>	<i>16 965.4</i>	<i>30 814.1</i>	<i>4 696.5</i>	<i>4 612.8</i>	<i>715.1</i>	<i>3 506.4</i>	<i>16 353.0</i>	<i>930.2</i>
02	Services to agriculture; hunting and trapping	4.2	45.3	24.9	2.5	1.4	1.2	15.4	—
03	Forestry and logging	251.0	1.1	0.6	0.3	—	—	—	0.2
04	Commercial fishing	0.5	0.6	—	—	—	0.6	—	—
	<i>Total (ANZSIC Division A)</i>	<i>17 221.2</i>	<i>30 861.1</i>	<i>4 722.1</i>	<i>4 615.6</i>	<i>716.5</i>	<i>3 508.1</i>	<i>16 368.4</i>	<i>930.4</i>
	ANZSIC divisions n.e.c.	159.3	266.3	32.0	65.6	6.7	18.0	140.2	3.9
	Unclassified	807.4	536.4	13.4	80.0	11.4	6.0	374.8	50.8
	Total all industries(a)	18 193.2	31 678.3	4 767.5	4 761.2	734.6	3 532.1	16 883.3	985.1

(a) Includes the Northern Territory and the Australian Capital Territory.

AGRO/FARM FORESTRY *continued*

The results of earlier plantings can be seen in the 1996–97 Agricultural Census data which show a rise in trees harvested for timber or woodpulp of 152% on 1995–96.

TIMBER HARVESTED, By Farmers—for timber or woodpulp production

	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.
	t	t	t	t	t	t	t	t
Hardwood	81 654	274 184	7 983	6 820	18 992	85	17 426	222 879
Softwood	60 325	83 575	16 374	25 723	4 823	12 851	4 673	19 132
Total	141 979	357 759	24 356	32 542	23 815	12 936	22 099	242 011

OPPORTUNITIES PROVIDED BY AGRO/FARM FORESTRY

Environmental

Developing farm forests can help address the many problems currently facing our rural environment. Increasing land degradation due to salinity, erosion, loss of fertility and loss of native fauna and flora can be halted and even reversed with well-considered tree planting programs.

A smarter distribution of waste water from industrial and domestic sources could be used to irrigate the new forests and therefore reduce the load on our river systems.

Even the quality of the air we breathe would be improved in that tree plantations would help counter greenhouse gas emissions. In the 1991 draft report, the Resource Assessment Commission accepted that 10% of current domestic CO₂ emissions would be absorbed by large-scale expansion of plantation development.

Economic

With exploitable forest resources in many countries becoming scarce, commercial timber production has the potential to become a major new farm industry. Full-time farmers can plant trees to help diversify their incomes and under-utilised properties of part-time farmers could be made profitable with minimum outlay. These part-time farmers may also enjoy some tax benefits. Joint venture agreements with State authorities and private enterprise can defray the costs in establishing plantations. Farm forestry can also be used to improve productivity of existing agricultural activities by providing shelter for stock and crops.

POLICY INITIATIVES/FUTURE DEVELOPMENTS

Governments at all levels in Australia are recognising the need to maintain a wood resource sympathetic to our environment and commercially attractive to farmers. The individual goals of three major initiatives supported by government are outlined below with all three serving Government objectives for integration of industry and conservation in Australia's native forests and plantations.

The Farm Forestry Program administered by the Forests Branch of the Commonwealth Department of Primary Industries and Energy (DPIE) aims to raise national awareness of farm forestry and promote a shift in the culture of land owners towards growing trees for commercial purposes. The program will support landholder and community led initiatives relating to commercial tree growing, improve availability of information and appropriate training to farmers and develop and enhance regional farm forestry strategies.

The National Forest Policy Statement (NFPS) is endorsed by all Commonwealth, State and Territory Governments and plans to expand Australia's commercial plantations and rehabilitate cleared land, improve water quantity and meet other environmental, economic or aesthetic objectives.

The Wood and Paper Industry Strategy is a four-year Commonwealth initiative, costing \$18 million over four years, to encourage investment, value adding and jobs growth in the forest industries. These initiatives will support industry's objective of trebling the area of plantations by 2020 and promote continued development of a diverse, internationally competitive industry based on ecologically sustainable management practices.

REFERENCES

Integrating forestry and farming: commercial wood production on cleared agricultural land, National Plantations Advisory Committee, November 1991

Commercial Farm Forestry in Australia, Rural Industries Research and Development Corporation, January 1996

Resource Assessment Commission, Draft report, 1991

SECTION 4

FINANCE

FINANCE

The significant improvement in financial performance of the Australian farm sector in 1995–96 slowed in 1996–97. In particular, the slump in meat cattle prices that began in 1995–96 held back growth in turnover in 1996–97.

Low interest rates have aided farmers in reducing their overall debt, following the high levels of debt experienced in 1995–96. However, the level of debt reduction in 1996–97 was relatively low at 1.1%.

TURNOVER

Aggregate turnover for all agricultural industries in 1996–97 was \$26,404 million, a 1.2% fall on 1995–96. Improved performance from the sale of livestock products was offset by falls in sales from crops and livestock. Lower prices in 1996–97 for beef and grain were the main cause of these falls.

Average turnover increased marginally, due mainly to the reduction in the number of farm businesses operating in 1996–97.

The main contributors to the fall in aggregate turnover were the livestock industries. The sheep-beef cattle industry experienced a 12.0% fall while the beef industry was down 8.5%. Sales of livestock fell in the sheep-beef cattle industry by 13.7%, from \$781 million to \$674 million. Significant falls in the sales from livestock were also recorded in the beef and sheep industries (8.0% and 7.8% respectively).

The cotton industry experienced an increase in turnover of 15.2%, from \$1,095 million in 1995–96 to \$1,262 million in 1996–97. While cotton prices fell in 1996–97 there was a substantial increase in production.

AGGREGATE TURNOVER OF ALL INDUSTRIES(a)



(a) Data for 1996–97 is preliminary.

TURNOVER *continued*

Aggregate and average turnover per farm business are shown in the following table for 1996–97 for each State.

FARM BUSINESS TURNOVER

State	Aggregate \$m	Average \$'000
New South Wales(a)	7 229.0	237.7
Victoria	5 299.3	195.2
Queensland	6 273.1	277.1
South Australia	2 617.4	219.3
Western Australia	4 160.3	380.9
Tasmania	628.9	199.0
Australia(b)	26 404.2	248.2

(a) Includes the Australian Capital Territory.

(b) Includes the Northern Territory.

VALUE ADDED

During 1996–97, farm businesses contributed \$10,441 million in value added to the Australian economy, \$745 million (6.7%) lower than for 1995–96. The biggest reduction in value added occurred in the grain industry. Value added for grain industry farm businesses in 1996–97 was \$1,573 million, 40.3% lower than in 1995–96.

CASH OPERATING SURPLUS

The fall in turnover experienced in 1996–97 has been reflected in a fall in cash operating surplus of 9.5% for the same period. The grain industry is the biggest contributor to cash operating surplus in Australian agriculture, accounting for \$1,569 million in 1996–97. This figure was 16.6% lower than the \$1,882 million recorded in 1995–96. The next largest contributor in terms of cash operating surplus was the grain-sheep/beef cattle industry with \$920 million, 12.6% lower than in 1995–96. Cash operating surplus for the beef industry fell 41.5% to \$264 million in 1996–97.

Pig and sheep-beef cattle were the only industries to experience significant increases in cash operating surplus in 1996–97, up 40.8% and 28.8% respectively.

Total farm business profit margin in 1996–97 was 22.0%, compared with 24.1% in 1995–96. On an industry basis, the highest profit margin was recorded by the grain industry (31.8%), closely followed by the sugar industry (30.9%). The beef cattle farming industry had the lowest profit margin (9.5%).

AVERAGE CASH OPERATING SURPLUS(a)



(a) Data for 1996-97 is preliminary.

NET CAPITAL EXPENDITURE

Net capital expenditure by farm businesses in 1996-97 was estimated at \$2,422 million, a 4.9% increase on the previous year. Average net capital expenditure per farm business in 1996-97 was \$22,800, compared with \$21,300 the previous year.

AVERAGE NET CAPITAL EXPENDITURE(a)



(a) Data for 1996-97 is preliminary.

DEBT AND INTEREST PAYMENTS

Australian farm businesses owed \$19,377 million at the end of 1996-97. This was 1.1% lower than the level of debt at the end of 1995-96. Net indebtedness (gross indebtedness less the value of financial assets) was \$11,162 million.

The average gross indebtedness per farm business at the end of 1996-97 was \$182,200, up slightly from \$180,700 at the end of 1995-96. The level of average net indebtedness of Australian farm businesses was little changed from 1995-96 at \$104,900. Western Australian farm businesses, with an average gross indebtedness of \$264,300, had the highest level of debt per farm business of the States. However, this was an improvement of \$56,300 (17.6%) on the level recorded in 1995-96.

Queensland farm businesses had the highest average net indebtedness of any State at \$155,300.

AVERAGE GROSS AND NET INDEBTEDNESS

State	Gross	Net
	\$'000	\$'000
New South Wales(a)	172.4	87.9
Victoria	126.0	84.8
Queensland	228.0	155.3
South Australia	169.8	95.3
Western Australia	264.3	109.3
Tasmania	177.3	125.5
Australia(b)	182.2	104.9

(a) Includes the Australian Capital Territory.

(b) Includes the Northern Territory.

Total interest payments by farm businesses in 1996–97 were \$1,646 million, similar to the 1995–96 figure. Average interest payments per farm business in 1996–97 were \$15,500.

ASSET VALUE AND NET WORTH

The estimated value of farm business assets at the end of 1996–97 was \$131,500 million, almost the same as at the end of 1995–96 but still well above the level recorded in 1994–95. The majority of farm business asset values is tied up in land, building and other structures.

Average farm business asset value at the end of 1996–97 was \$1,236,000.

AVERAGE FARM BUSINESS ASSET VALUE

State	\$'000
New South Wales(a)	1 225.4
Victoria	934.5
Queensland	1 408.0
South Australia	1 030.7
Western Australia	1 899.4
Tasmania	950.8
Australia(b)	1 236.0

(a) Includes the Australian Capital Territory.

(b) Includes the Northern Territory.

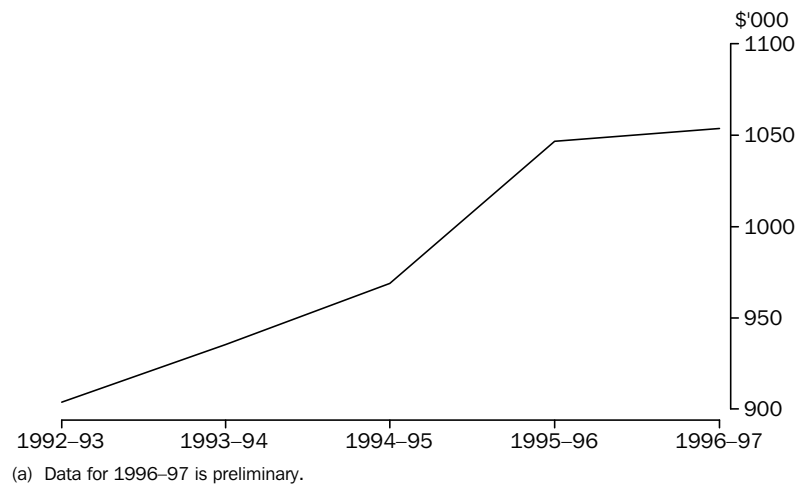
The debt to asset ratio (value of assets divided by gross indebtedness) remained at 1:6.8 in 1996–97. That is, for every dollar of debt there was \$6.80 of asset backing.

DEBT TO ASSET RATIO(a)



Aggregate net worth (value of assets less gross indebtedness) of all farm businesses at the end of 1996-97 was \$112,100 million. The average net worth per farm business was \$1,053,900.

AVERAGE NET WORTH(a)



FARM BUSINESSES

The population from which the sample for the Agricultural Finance Survey was drawn comprised all farm businesses classified to ANZSIC Subdivision 01: Agriculture, based on their principal activity, and which had an EVAO of \$22,500 or more.

The table below shows estimates of the numbers of farm businesses classified to Agriculture with an EVAO of \$22,500 or more.

FARM BUSINESSES

	1994-95	1995-96	1996-97 ^p
State	no.	no.	no.
New South Wales(a)	30 632	31 601	30 407
Victoria	27 551	27 693	27 150
Queensland	22 595	22 543	22 638
South Australia	12 283	12 303	11 933
Western Australia	10 914	10 873	10 922
Tasmania	3 078	3 127	3 160
Australia(b)	107 286	108 413	106 379

(a) Includes the Australian Capital Territory.

(b) Includes the Northern Territory.

FARM BUSINESSES, Selected Financial Statistics—Years ended 30 June

Items	AGGREGATES.....				AVERAGES.....			
	1994-95	1995-96	1996-97p.....		1994-95	1995-96	1996-97p.....	
	\$m	\$m	\$m	SE%	\$'000	\$'000	\$'000	SE%
FRUIT (0114-0119)								
Sales from crops	1 519.4	1 744.5	1 741.6	6	165.5	188.0	179.9	5
Sales from livestock	37.5	30.7	20.2	32	4.1	3.3	2.1	5
Sales from livestock products	13.7	11.4	16.2	49	1.5	1.2	1.7	5
Turnover	1 773.6	1 949.0	1 956.7	6	193.1	210.0	202.1	5
Purchases and selected expenses	814.4	882.9	948.8	7	88.7	95.2	98.0	5
Value added(a)	948.0	1 055.9	996.9	7	103.2	113.8	103.0	5
Adjusted value added(a)	835.2	960.4	880.1	8	91.0	103.5	90.9	5
Gross operating surplus	488.4	610.6	514.0	10	53.2	65.8	53.1	6
Interest paid	87.8	88.7	86.0	12	9.6	9.6	8.9	5
Cash operating surplus(b)	435.7	549.8	461.2	12	47.5	59.3	47.6	6
Gross indebtedness	1 172.7	921.2	941.9	11	127.7	99.3	97.3	5
Total net capital expenditure	88.6	152.7	131.4	17	9.6	16.5	13.6	5
Total value of assets	6 243.8	6 012.5	7 372.5	8	679.9	648.0	761.4	5
Net indebtedness	526.9	299.2	204.5	**	57.4	32.2	21.1	—
Net worth	5 071.1	5 091.4	6 430.6	8	552.2	548.7	664.1	5
VEGETABLES (0113)								
Sales from crops	1 266.9	1 348.7	1 275.5	9	295.7	333.3	321.1	8
Sales from livestock	62.8	73.3	91.0	17	14.7	18.1	22.9	9
Sales from livestock products	61.8	59.5	14.5	28	14.4	14.7	3.7	9
Turnover	1 493.3	1 589.3	1 518.6	7	348.5	392.7	382.2	8
Purchases and selected expenses	781.5	860.4	856.9	8	182.4	212.6	215.7	8
Value added(a)	709.8	718.1	649.8	9	165.6	177.4	163.5	8
Adjusted value added(a)	653.0	645.3	582.8	10	152.4	159.5	146.7	8
Gross operating surplus	410.9	401.9	351.9	12	95.9	99.3	88.6	8
Interest paid	55.0	65.3	63.8	11	12.8	16.1	16.1	9
Cash operating surplus(b)	354.1	354.6	314.8	13	82.6	87.6	79.2	8
Gross indebtedness	630.2	833.9	849.2	13	147.1	206.1	213.7	9
Total net capital expenditure	125.8	157.0	109.5	14	29.4	38.8	27.6	8
Total value of assets	3 344.0	4 157.7	4 274.1	7	780.4	1 027.4	1 075.8	8
Net indebtedness	414.1	482.2	511.0	18	96.6	119.1	128.6	9
Net worth	2 713.7	3 323.7	3 424.9	10	633.3	821.3	862.0	8
GRAIN (0121)								
Sales from crops	2 119.4	4 331.4	3 991.7	4	221.7	316.0	304.9	6
Sales from livestock	284.7	467.5	378.5	8	29.8	34.1	28.9	6
Sales from livestock products	217.4	236.3	241.4	20	22.7	17.2	18.4	7
Turnover	2 790.0	5 332.2	4 933.9	4	291.9	389.0	376.9	6
Purchases and selected expenses	1 607.1	2 751.1	2 715.4	4	168.1	200.7	207.4	6
Value added(a)	1 169.4	2 634.2	1 572.8	6	122.3	192.2	162.9	6
Adjusted value added(a)	1 003.4	2 366.2	1 880.5	5	105.0	172.6	143.7	6
Gross operating surplus	855.0	2 154.6	1 667.1	6	89.4	157.2	127.4	6
Interest paid	156.3	283.0	247.9	9	16.4	20.6	18.9	6
Cash operating surplus(b)	731.3	1 882.1	1 569.4	5	76.5	137.3	119.9	6
Gross indebtedness	2 015.6	2 982.7	2 899.7	7	210.9	217.6	221.5	6
Total net capital expenditure	363.6	705.5	578.8	10	38.0	51.5	44.2	6
Total value of assets	11 623.1	19 301.3	17 750.4	4	1 215.9	1 408.1	1 356.0	6
Net indebtedness	1 230.0	1 763.7	1 644.8	17	128.7	128.7	125.7	6
Net worth	9 607.5	16 318.6	14 850.7	5	1 005.1	1 190.5	1 134.5	6

(a) Includes an estimate for the value of the increase in livestock.

(b) Excludes an estimate for the value of the increase in livestock.

FARM BUSINESSES, Selected Financial Statistics—Years ended 30 June *continued*

Items	AGGREGATES.....				AVERAGES.....			
	1994-95	1995-96	1996-97p.....		1994-95	1995-96	1996-97p.....	
	\$m	\$m	\$m	SE%	\$'000	\$'000	\$'000	SE%
GRAIN-SHEEP/BEEF (0122)								
Sales from crops	1 624.8	2 301.0	3 991.7	4	96.3	153.1	139.4	5
Sales from livestock	726.3	874.8	836.4	7	43.0	58.2	50.4	4
Sales from livestock products	815.8	574.2	734.2	6	48.3	38.2	44.3	5
Turnover	3 397.3	4 007.8	4 227.5	4	201.3	266.7	254.8	5
Purchases and selected expenses	2 059.3	2 227.5	2 503.1	4	122.0	148.2	150.9	5
Value added(a)	1 249.1	1 806.1	1 572.8	6	74.0	120.2	94.8	5
Adjusted value added(a)	1 012.1	1 572.6	1 285.0	7	60.0	104.7	77.4	5
Gross operating surplus	820.5	1 343.3	1 021.3	8	48.6	89.4	61.6	5
Interest paid	286.7	300.3	290.3	9	17.0	20.0	17.5	5
Cash operating surplus(b)	616.5	1 052.8	920.3	8	36.5	70.1	55.5	5
Gross indebtedness	3 151.8	3 526.8	3 059.7	8	186.8	234.7	184.4	5
Total net capital expenditure	377.2	416.6	431.6	9	22.3	27.7	26.0	5
Total value of assets	18 315.7	19 289.7	21 103.9	4	1 085.2	1 283.7	1 271.9	5
Net indebtedness	2 241.3	2 615.7	2 096.7	14	132.8	174.1	126.4	5
Net worth	15 163.9	15 762.9	18 044.2	5	898.3	1 049.0	1 087.5	5
SHEEP-BEEF CATTLE (0123)								
Sales from crops	126.0	111.5	89.8	26	11.8	11.3	10.3	5
Sales from livestock	890.0	780.8	674.0	5	83.2	79.1	77.7	5
Sales from livestock products	698.4	469.0	461.0	8	65.3	47.5	53.1	6
Turnover	1 857.3	1 489.4	1 311.2	4	173.6	150.8	151.1	5
Purchases and selected expenses	1 084.0	897.9	742.4	6	101.3	90.9	85.6	5
Value added(a)	665.2	598.0	506.4	9	62.2	60.5	58.4	6
Adjusted value added(a)	509.7	456.6	391.4	11	47.6	46.2	45.1	6
Gross operating surplus	363.5	306.6	247.2	18	34.0	31.0	28.5	6
Interest paid	144.8	131.7	122.2	14	13.5	13.3	14.1	6
Cash operating surplus(b)	346.3	189.2	243.6	21	32.4	19.2	28.1	6
Gross indebtedness	1 585.1	1 336.2	1 352.1	13	148.2	135.3	155.8	6
Total net capital expenditure	102.8	66.4	65.5	14	9.6	6.7	7.6	5
Total value of assets	14 865.1	13 862.8	12 094.5	5	1 389.7	1 403.5	1 393.7	5
Net indebtedness	731.8	916.2	676.4	50	68.4	92.8	77.9	6
Net worth	13 280.0	12 526.6	10 742.4	6	1 241.5	1 268.3	1 237.9	5
SHEEP (0124)								
Sales from crops	105.0	159.6	133.8	22	9.0	14.3	13.0	5
Sales from livestock	392.0	424.4	391.3	9	33.6	38.1	37.9	6
Sales from livestock products	1 060.1	776.5	776.8	7	90.8	69.6	75.3	6
Turnover	1 652.1	1 498.9	1 399.2	4	141.6	134.4	136.5	6
Purchases and selected expenses	863.6	895.6	784.4	5	74.0	80.3	76.0	6
Value added(a)	658.1	924.9	641.6	8	56.4	82.9	62.2	6
Adjusted value added(a)	513.8	792.3	518.7	9	44.0	71.0	50.3	6
Gross operating surplus	373.0	652.0	377.9	12	32.0	58.5	36.6	6
Interest paid	134.3	120.7	96.5	14	11.5	10.8	9.3	6
Cash operating surplus(b)	372.1	242.6	283.8	11	31.9	21.8	27.5	5
Gross indebtedness	1 417.0	1 403.6	151.5	13	121.4	125.8	111.6	6
Total net capital expenditure	148.3	98.7	109.4	12	12.7	8.8	10.6	5
Total value of assets	10 933.7	13 596.9	11 246.9	7	936.8	1 219.1	1 089.7	5
Net indebtedness	950.1	397.3	431.3	43	81.4	35.6	41.8	6
Net worth	9 516.7	12 193.3	10 095.4	7	815.4	1 093.3	978.1	5

(a) Includes an estimate for the value of the increase in livestock.

(b) Excludes an estimate for the value of the increase in livestock.

FARM BUSINESSES, Selected Financial Statistics—Years ended 30 June *continued*

Items	AGGREGATES.....				AVERAGES.....			
	1994-95	1995-96	1996-97p.....	SE%	1994-95	1995-96	1996-97p.....	SE%
	\$m	\$m	\$m	SE%	\$'000	\$'000	\$'000	SE%
BEEF CATTLE (0125)								
Sales from crops	119.1	159.1	217.0	21	6.8	9.0	12.5	3
Sales from livestock	2 617.4	2 398.1	2 205.9	5	148.4	135.8	126.8	3
Sales from livestock products	77.5	25.8	36.0	21	4.4	1.5	75.3	6
Turnover	3 163.9	3 046.7	2 787.1	5	179.3	172.5	160.2	3
Purchases and selected expenses	2 002.6	1 898.9	1 860.4	5	113.5	107.5	107.0	3
Value added(a)	954.0	265.6	465.6	18	54.1	15.0	26.8	3
Adjusted value added(a)	723.6	4.8	228.4	37	41.0	0.3	13.1	3
Gross operating surplus	473.7	-248.2	2.8	**	26.8	-14.1	0.2	11
Interest paid	221.4	249.9	267.4	9	12.5	14.2	15.4	3
Cash operating surplus(b)	503.1	450.7	263.8	24	28.5	25.5	15.2	3
Gross indebtedness	3 071.2	3 299.4	3 211.8	9	174.1	186.8	184.7	3
Total net capital expenditure	285.3	156.4	190.1	11	16.2	8.9	10.9	3
Total value of assets	26 674.7	27 305.5	24 137.8	5	1 511.9	1 546.2	1 387.7	3
Net indebtedness	1 471.6	1 664.8	1 954.9	18	83.4	94.3	112.4	3
Net worth	23 603.5	24 006.1	20 925.9	5	1 337.8	1 359.3	1 203.1	3
DAIRY CATTLE (0130)								
Sales from crops	39.6	43.9	38.0	28	2.9	3.3	2.9	5
Sales from livestock	310.7	307.5	282.8	11	23.0	23.3	21.6	6
Sales from livestock products	2 285.4	2 419.7	2 627.8	4	169.0	183.6	200.3	6
Turnover	2 718.2	2 858.5	3 051.0	4	201.0	216.9	232.5	6
Purchases and selected expenses	1 674.6	1 705.9	1 858.6	5	123.8	129.5	141.7	6
Value added(a)	1 375.4	1 115.5	1 186.1	6	101.7	84.7	90.4	6
Adjusted value added(a)	1 232.0	992.9	1 039.5	7	91.1	75.4	79.2	6
Gross operating surplus	1 071.4	857.4	850.9	9	79.2	65.1	64.9	6
Interest paid	185.7	205.7	216.7	9	13.7	15.6	16.5	6
Cash operating surplus(b)	546.9	711.8	670.7	11	40.4	54.0	51.1	6
Gross indebtedness	1 995.9	2 061.0	2 383.5	9	147.6	156.4	181.7	6
Total net capital expenditure	227.2	193.5	367.2	14	16.8	14.7	28.0	6
Total value of assets	13 690.7	13 732.9	15 852.3	4	1 012.2	1 042.2	1 208.2	6
Net indebtedness	1 128.5	1 281.4	1 401.6	16	83.4	97.2	106.8	6
Net worth	11 694.7	11 672.0	13 468.9	4	864.7	885.8	1 026.5	6
PIGS (0151)								
Sales from crops	37.0	39.3	25.7	29	28.3	36.9	24.3	17
Sales from livestock	558.3	583.6	635.3	6	426.8	548.7	601.1	12
Sales from livestock products	25.6	12.6	15.3	17	19.6	11.8	14.4	9
Turnover	666.6	673.8	714.9	6	509.6	633.3	676.3	12
Purchases and selected expenses	495.3	476.7	474.7	6	378.7	448.0	449.1	12
Value added(a)	172.6	168.0	271.1	12	132.0	157.9	256.5	14
Adjusted value added(a)	142.9	140.4	240.4	13	109.3	132.0	227.4	14
Gross operating surplus	84.9	83.7	172.8	16	64.9	78.7	163.5	14
Interest paid	26.7	23.4	16.5	18	20.4	22.0	15.6	12
Cash operating surplus(b)	56.4	91.6	129.0	16	43.1	86.1	122.0	12
Gross indebtedness	321.4	295.6	246.2	16	245.7	277.8	232.9	12
Total net capital expenditure	45.4	25.7	47.3	9	34.7	24.2	44.7	9
Total value of assets	1 549.8	1 576.7	1 424.3	9	1 184.9	1 481.9	1 347.5	13
Net indebtedness	215.5	220.9	143.8	31	164.8	207.6	136.0	11
Net worth	1 228.3	1 281.1	1 178.1	10	939.1	1 204.0	1 114.6	14

(a) Includes an estimate for the value of the increase in livestock.

(b) Excludes an estimate for the value of the increase in livestock.

FARM BUSINESSES, Selected Financial Statistics—Years ended 30 June *continued*

Items	AGGREGATES.....				AVERAGES.....			
	1994-95	1995-96	1996-97p.....		1994-95	1995-96	1996-97p.....	
	\$m	\$m	\$m	SE%	\$'000	\$'000	\$'000	SE%
SUGAR (0161)								
Sales from crops	1 246.2	1 188.8	1 190.8	9	258.1	241.5	252.0	12
Sales from livestock	12.4	15.0	18.4	60	2.6	3.0	3.9	14
Sales from livestock products	—	—	—	—	—	—	—	—
Turnover	1 375.2	1 326.9	1 310.6	8	284.8	269.6	277.3	12
Purchases and selected expenses	621.7	626.6	664.6	9	128.8	127.3	140.6	12
Value added(a)	754.7	697.0	630.1	10	156.3	141.6	133.3	12
Adjusted value added(a)	685.8	623.5	240.4	13	142.0	126.7	119.6	12
Gross operating surplus	565.7	496.8	432.0	13	117.2	100.9	91.4	12
Interest paid	40.6	45.7	56.4	27	8.4	9.3	11.9	11
Cash operating surplus(b)	533.5	483.2	404.7	11	110.5	98.2	85.6	12
Gross indebtedness	754.4	743.1	867.2	19	156.3	151.0	183.5	11
Total net capital expenditure	140.6	154.7	144.6	21	29.1	31.4	30.6	12
Total value of assets	5 224.7	5 746.1	6 593.1	12	1 082.2	1 167.4	1 395.1	12
Net indebtedness	326.7	336.8	610.9	29	67.7	68.4	129.3	10
Net worth	4 470.3	5 003.0	5 725.9	12	925.9	1 016.5	1 211.6	12
COTTON (0162)								
Sales from crops	676.9	893.1	1 134.4	7	867.8	1 137.7	1 373.3	18
Sales from livestock	17.0	56.9	33.6	19	21.8	72.5	40.7	16
Sales from livestock products	7.5	5.0	14.1	23	9.6	6.4	17.0	11
Turnover	790.1	1 095.2	1 261.6	7	1 012.9	1 395.2	1 527.4	17
Purchases and selected expenses	484.0	714.7	789.9	6	620.5	910.4	956.3	18
Value added(a)	313.0	381.4	467.0	11	401.3	485.9	565.4	17
Adjusted value added(a)	265.8	328.1	398.2	12	340.8	418.0	482.1	17
Gross operating surplus	193.0	239.9	281.3	16	247.4	305.6	340.6	16
Interest paid	63.1	58.8	87.3	11	80.9	74.9	105.7	20
Cash operating surplus(b)	125.5	186.4	209.2	24	160.9	237.5	253.2	14
Gross indebtedness	890.4	910.1	1 263.7	11	1 141.5	1 159.5	1 529.9	19
Total net capital expenditure	80.4	91.0	128.4	22	103.1	115.9	155.5	19
Total value of assets	3 060.7	2 619.2	3 589.1	8	3 924.0	3 336.6	4 345.1	19
Net indebtedness	436.0	567.9	762.4	24	559.0	723.4	923.0	21
Net worth	2 170.3	1 709.1	2 325.4	10	2 782.4	2 177.2	2 815.2	19
OTHER AGRICULTURE (0111-0112, 0151-0159, 0169)								
Sales from crops	924.0	838.9	977.7	14	133.3	108.7	141.3	5
Sales from livestock	370.1	327.1	244.9	21	53.4	42.4	35.4	4
Sales from livestock products	333.1	385.3	342.0	20	48.0	49.9	49.4	5
Turnover	1 838.9	1 857.2	1 932.1	9	265.2	240.7	279.3	5
Purchases and selected expenses	1 028.7	1 010.4	1 004.4	10	148.4	131.0	145.2	5
Value added(a)	798.9	820.6	921.2	9	115.2	106.4	133.2	5
Adjusted value added(a)	656.8	669.5	780.9	10	94.7	86.8	112.9	5
Gross operating surplus	306.0	278.1	413.6	13	44.1	36.0	59.8	5
Interest paid	106.4	93.4	95.5	14	15.3	12.1	13.8	5
Cash operating surplus(b)	214.5	234.4	347.1	15	30.9	30.4	50.2	5
Gross indebtedness	1 261.8	1 279.0	1 151.0	15	182.0	165.8	166.4	5
Total net capital expenditure	105.6	89.6	117.8	23	15.2	11.6	17.0	5
Total value of assets	6 672.5	5 885.8	6 049.6	9	962.3	762.9	874.5	5
Net indebtedness	713.2	802.7	723.3	24	102.9	104.0	104.6	5
Net worth	5 410.7	4 606.8	4 898.5	9	780.3	597.1	708.1	5

(a) Includes an estimate for the value of the increase in livestock.

(b) Excludes an estimate for the value of the increase in livestock.

FARM BUSINESSES, Selected Financial Statistics—Years ended 30 June *continued*

Items	AGGREGATES.....				AVERAGES.....			
	1994-95	1995-96	1996-97p.....		1994-95	1995-96	1996-97p.....	
	\$m	\$m	\$m	SE%	\$'000	\$'000	\$'000	SE%
AGRICULTURE, ALL INDUSTRIES								
Sales from crops	9 804.2	13 159.6	13 128.2	2	91.4	121.4	123.4	2
Sales from livestock	6 279.1	6 339.7	5 812.2	3	58.5	58.5	54.6	2
Sales from livestock products	5 596.3	4 975.1	5 279.2	3	52.2	45.9	49.6	2
Turnover	23 516.3	26 724.9	26 404.2	2	219.2	246.5	248.2	2
Purchases and selected expenses	13 517.0	14 948.6	15 203.8	2	126.0	137.9	142.9	2
Value added(a)	9 768.1	11 185.3	10 440.7	2	91.0	103.2	98.1	2
Adjusted value added(a)	8 234.3	9 552.5	8 791.1	3	76.7	88.1	82.6	2
Gross operating surplus	6 006.0	7 176.6	6 333.0	3	56.0	66.2	59.5	2
Interest paid	1 508.9	1 666.7	1 646.5	3	14.1	15.4	15.5	2
Cash operating surplus(b)	4 835.7	6 429.3	5 817.6	3	45.1	59.3	54.7	2
Gross indebtedness	18 267.7	19 592.7	19 377.5	3	170.3	180.7	182.2	2
Total net capital expenditure	2 090.8	2 307.9	2 421.6	4	19.5	21.3	22.8	2
Total value of assets	122 198.4	133 087.1	131 488.3	2	1 139.0	1 227.6	1 236.0	2
Net indebtedness	10 385.8	11 348.9	11 161.6	7	96.8	104.7	104.9	2
Net worth	103 930.7	113 494.4	112 110.7	2	968.7	1 046.9	1 053.9	2

(a) Includes an estimate for the value of the increase in livestock.

(b) Excludes an estimate for the value of the increase in livestock.

SECTION 5

CROPS AND PASTURES.....

WHEAT

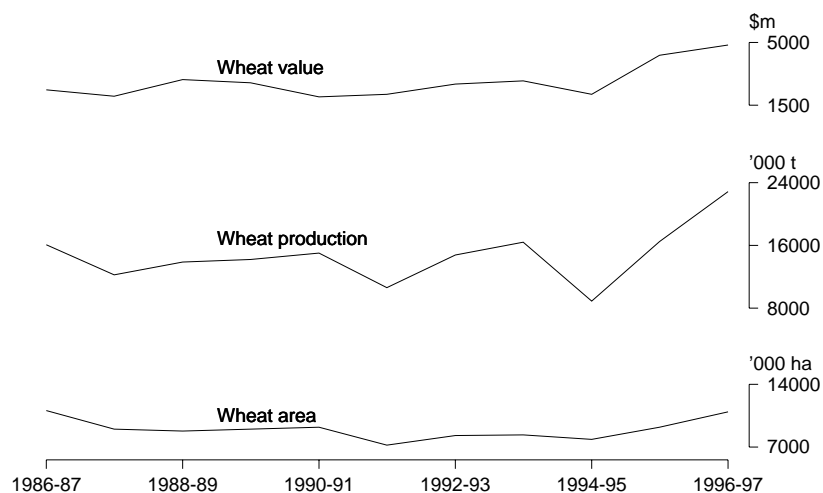
The strong growth experienced in wheat production in 1995–96 after the drought of the previous season continued in 1996–97.

Favourable growing conditions saw many farmers move out of livestock and into grain growing in 1996–97. Consequently the area planted to wheat increased 18.6% to 10.9 million hectares. Production of wheat for the year ended 31 March 1997 was a record 22.9 million tonnes, 38.9% higher than the 16.5 million tonnes recorded for 1995–96.

Queensland experienced the largest growth in wheat production, recording 2.0 million tonnes in 1996–97, compared to 0.5 million tonnes in 1995–96. Yield increased from 0.8 tonnes per hectare to 2.0 tonnes per hectare.

New South Wales overtook Western Australia as Australia's largest wheat producing State, its 8.4 million tonnes comprising 36.5% of the Australian total. Western Australia contributed 32.8% after accounting for 41.4% the year before.

The gross value of wheat produced increased 13.3% to \$4,878.0 million in 1996–97. The average gross unit value for wheat was \$212.78 per tonne, an 18.4% decrease on 1995–96.



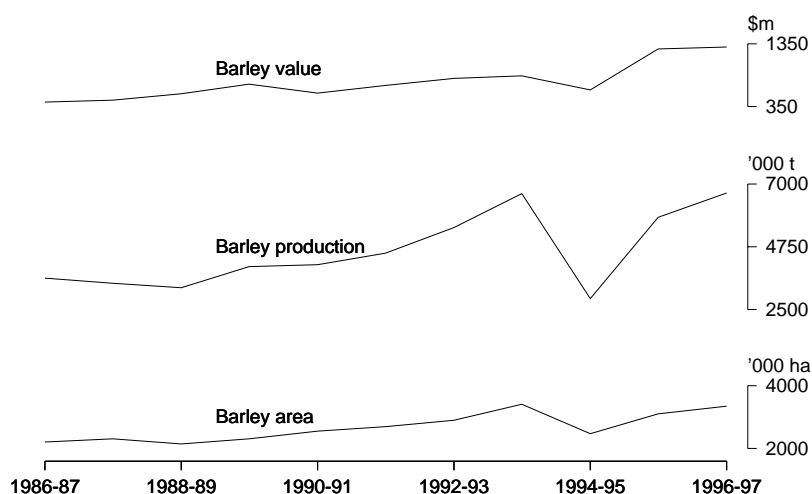
OATS

While the Australian wheat industry experienced strong growth in 1996–97, oats production declined. The area of oats sown for grain decreased by 7.4% to 1.1 million hectares. Production also decreased, by 11.8%, to 1.7 million tonnes and yield fell slightly, to 1.6 tonnes per hectare. Much of the decline in production was experienced in Victoria and New South Wales, where falls of 22.4% and 14.6% respectively were recorded. Gross value of oats for grain fell by 21.7% to \$226.7 million, the result of a fall in production and drop in average gross unit value of 11.2% to \$137.12 per tonne.

BARLEY

Barley, Australia's second largest cereal crop, experienced growth in all States except Victoria and Tasmania in 1996–97. The area sown to barley increased 8.2% to 3.4 million hectares, while production was up 15.0%, to 6.7 million tonnes, following a doubling of production in 1995–96. Yield increased slightly, to 2.0 tonnes per hectare, up from 1.9 tonnes per hectare recorded in 1995–96. Queensland, New South Wales and Western Australia all experienced strong growth in barley production (up 120.0%, 38.1% and 23.6% respectively) while Victoria experienced an 11.4% drop in production.

After a large increase of 105.1% in 1995–96, in 1996–97 the gross value of barley rose 2.3%, to \$1,306.1 million; this is the highest value recorded for barley. South Australia was the State with the largest production, contributing \$358.6 million (27.5%) of the gross value of the total barley crop. The average gross unit value for barley decreased by 11.0% to \$195.06 per tonne.



GRAIN SORGHUM

As producers moved out of livestock industries into grains such as wheat and barley, the demand for feed crops such as grain sorghum decreased in 1996–97. As a result there were decreases in production levels in New South Wales and Queensland.

The area of grain sorghum sown in 1996–97 decreased by 29.4% to 544,000 hectares. Production decreased by 10.5% to 1.4 million tonnes. While falls were evident in area and production, yield increased to 2.6 tonnes per hectare, from 2.1 tonnes per hectare in 1995–96.

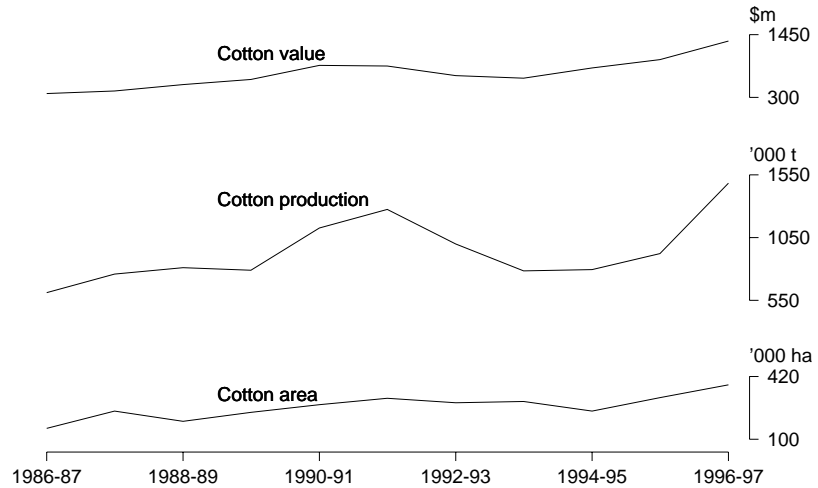
The gross value of grain sorghum decreased by 19.7% to \$257.2 million. Queensland produced 70.4% (1.0 million tonnes) of the total crop, with a gross value of \$179.0 million.

RICE

The area of rice sown increased by 10.9% to 152,000 hectares in 1996–97. Production of rice increased by 29.9%, to 1.3 million tonnes, after a 4.9% fall in 1995–96. Yield increased significantly to 8.2 tonnes per hectare from 7.1 tonnes per hectare. The gross value of rice rose by 37.3% to \$310.3 million. Production in 1993–94 was 1.0 million tonnes, with a gross value \$261.5 million.

COTTON

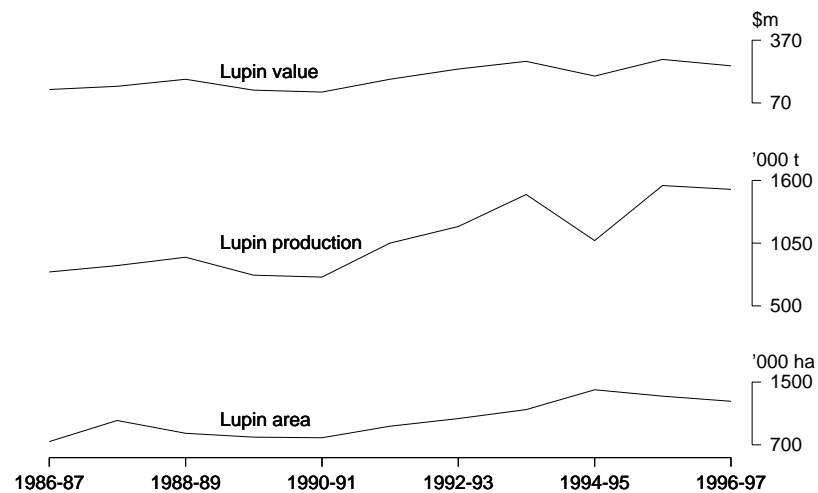
The area planted to cotton in 1996–97 increased by 20.0% to 378,000 hectares. Production of cotton increased by 60.9% to 1.5 million tonnes. Gross value for cotton increased by 33.9%, to \$1,342.4 million, making it Australia's second most valuable crop in gross value terms after wheat, and surpassing sugar and barley.



LUPINS

The area of lupins sown in 1996–97 fell by 4.8% to 1.3 million hectares, while production remained virtually unchanged at 1.5 million tonnes. Western Australia is Australia's largest lupin producer, accounting for 83.6% of the total crop.

Gross value of lupins fell by 10.6% to \$249.5 million, with Western Australia recording a gross value of \$193.0 million.



CANOLA

Canola makes up the bulk of Australia's oilseed production and it has shown steady growth in production over the last three years. Since 1988–89 the area sown to canola (43,000 hectares) has increased almost tenfold, while production (58,000 tonnes) has increased over tenfold.

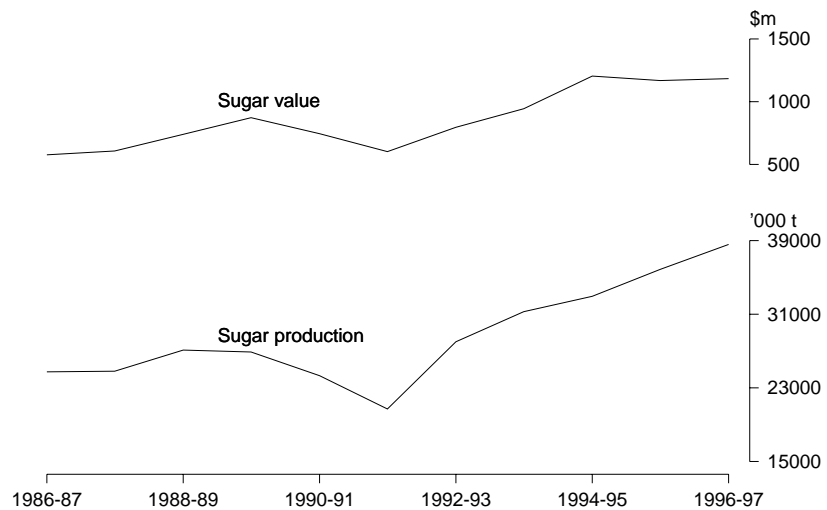
The area of canola sown in 1996–97 increased by 8.0% to 407,000 hectares. Production was up 11.8%, to 623,000 tonnes, while yield remained steady at 1.5 tonnes per hectare. Gross value of canola increased by 14.8% to \$238.6 million.

CROPS AND PASTURES CUT FOR HAY

Pastures made up 71.6% of all production of crops and pastures for hay while accounting for 71.8% of area planted. There was a fall of 30.0% in cereals cut for hay in 1996–97, while the production of pastures and grasses cut for hay fell 25.3% over the same period.

SUGAR

Production of sugar cane for crushing increased by 7.6% to 38.6 million tonnes; the yield increased 4.0% to 99.0 tonnes per hectare. The gross value of sugar cane for crushing increased by 1.5% to \$1,186.4 million, despite the average gross unit value for sugar cane falling by 5.7% to \$30.71 per tonne.



PRINCIPAL CROPS, Production, Area and Yield—Years ended 31 March

	AUST.			1997						
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT
Cereals for grain										
Barley										
Production ('000 t)	2 913	5 823	6 696	1 483	1 189	429	1 923	1 635	35	1
Area ('000 ha)	2 470	3 111	3 367	668	585	180	1 009	909	15	1
Yield (t/ha)	1.2	1.9	2.0	2.2	2.0	2.4	1.9	1.8	2.4	1.9
Grain sorghum										
Production ('000 t)	1 273	1 592	1 425	417	3	1 003	(a)	2	—	—
Area ('000 ha)	687	770	544	117	1	424	(a)	1	—	—
Yield (t/ha)	1.9	2.1	2.6	3.6	1.9	2.4	..	1.6	—	—
Maize										
Production ('000 t)	242	311	398	256	7	130	—	5	(a)	—
Area ('000 ha)	50	56	67	31	1	34	—	1	(a)	—
Yield (t/ha)	4.8	5.5	6.0	8.3	6.5	3.8	—	8.5	..	—
Oats										
Production ('000 t)	924	1 875	1 653	607	304	26	156	546	14	(a)
Area ('000 ha)	897	1 136	1 052	393	175	39	121	316	8	(a)
Yield (t/ha)	1.0	1.7	1.6	1.5	1.7	0.7	1.3	1.7	1.7	..
Rice										
Production ('000 t)	1 016	966	1 255	1 248	6	(a)	(a)	(a)	(a)	—
Area ('000 ha)	119	137	152	151	1	(a)	(a)	(a)	(a)	—
Yield (t/ha)	8.5	7.1	8.2	8.2	7.9	..	..	..	..	—
Triticale										
Production ('000 t)	182	469	674	317	167	6	141	35	7	(a)
Area ('000 ha)	153	221	346	118	93	2	105	26	2	(a)
Yield (t/ha)	1.2	2.1	1.9	2.7	1.8	2.8	1.3	1.4	3.3	..
Wheat										
Production ('000 t)	8 961	16 504	22 924	8 363	2 262	1 980	2 795	7 516	8	1
Area ('000 ha)	7 891	9 221	10 936	3 192	963	980	1 535	4 264	2	1
Yield (t/ha)	1.1	1.8	2.1	2.6	2.4	2.0	1.8	1.8	3.9	0.9
Legumes										
Lupins for grain										
Production ('000 t)	1 076	1 559	1 522	96	52	—	102	1 272	—	(a)
Area ('000 ha)	1 407	1 323	1 259	64	43	—	71	1 080	—	(a)
Yield (t/ha)	0.8	1.2	1.2	1.5	1.2	—	1.4	1.2	—	..
Field peas for grain										
Production ('000 t)	240	530	454	18	213	—	195	26	1	(a)
Area ('000 ha)	461	382	336	15	174	1	119	26	—	(a)
Yield (t/ha)	0.5	1.4	1.4	1.2	1.2	—	1.6	1.0	1.7	..
Crops cut for hay										
Cereal crops for hay										
Production ('000 t)	968	1 742	1 220	229	189	52	330	413	6	1
Area ('000 ha)	349	469	326	62	51	16	92	104	1	—
Yield (t/ha)	2.8	3.7	3.7	3.7	3.7	3.3	3.6	4.0	3.9	3.5
Non cereal crops for hay										
Production ('000 t)	106	223	109	15	26	21	23	19	4	2
Area ('000 ha)	135	62	36	5	9	7	8	6	1	—
Yield (t/ha)	3.0	3.6	3.0	2.9	2.8	3.1	3.0	3.1	4.0	4.3

(a) Data not collected.

PRINCIPAL CROPS, Production, Area and Yield—Years ended 31 March *continued*

	AUST.			1997						
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT
Oilseeds										
Canola										
Production ('000 t)	264	557	623	331	132	—	53	108	—	(a)
Area ('000 ha)	356	377	407	173	92	—	36	107	—	(a)
Yield (t/ha)	0.7	1.5	1.5	1.9	1.4	—	1.5	1.0	—	..
Other										
Production ('000 t)	154	139	240	101	15	120	4	—	—	(a)
Area ('000 ha)	184	146	215	74	23	112	6	—	—	(a)
Yield (t/ha)	0.8	1.0	1.1	1.4	0.7	1.1	0.7	—	—	..
Other crops										
Sugar cane cut for crushing										
Production ('000 t)	32 971	35 889	38 633	2 231	(a)	36 232	(a)	170	(a)	(a)
Area ('000 ha)	363	377	390	18	(a)	371	(a)	1	(a)	(a)
Yield (t/ha)	90.8	95.2	99.0	124.0	..	97.6	..	164.7	..	..
Seed cotton										
Production ('000 t)	796	923	1 485	1 027	(a)	458	(a)	—	(a)	(a)
Area ('000 ha)	245	315	378	249	(a)	129	(a)	—	(a)	(a)
Yield (t/ha)	3.2	2.9	3.9	4.1	..	3.5	..	—	..	..
Peanuts (in shell)										
Production ('000 t)	23	38	47	1	(a)	46	(a)	(a)	(a)	(a)
Area ('000 ha)	13	21	24	1	(a)	23	(a)	(a)	(a)	(a)
Yield (t/ha)	1.8	1.8	2.0	1.8	..	2.0	..	..	..	..
Tobacco										
Production ('000 t)	7	8	9	(a)	4	5	(a)	(a)	(a)	(a)
Area ('000 ha)	3	3	3	(a)	2	2	(a)	(a)	(a)	(a)
Yield (t/ha)	2.3	2.7	2.6	..	2.4	2.8	..	..	..	..
Pastures and grasses cut for hay										
Lucerne										
Production ('000 t)	822	989	897	412	187	179	84	21	12	1
Area ('000 ha)	177	210	184	95	37	22	22	5	3	—
Yield (t/ha)	4.6	4.7	4.9	4.3	5.1	8.2	3.8	3.9	4.8	8.0
Other										
Production ('000 t)	2 115	3 066	2 461	355	1 255	66	249	325	204	7
Area ('000 ha)	622	827	738	108	392	18	81	86	49	2
Yield (t/ha)	3.4	3.7	3.3	3.3	3.2	3.7	3.1	3.8	4.2	3.8
<i>Total cut for hay</i>										
Production ('000 t)	3 353	4 496	3 358	767	1 442	245	333	346	216	8
Area ('000 ha)	915	1 152	922	204	429	40	103	92	52	2
Yield (t/ha)	3.7	3.9	3.6	3.8	3.4	6.1	3.2	3.8	4.2	4.0
Pasture seed										
Production ('000 t)	19	26	25	3	10	1	9	2	1	—
Area ('000 ha)	82	102	100	14	26	17	28	12	2	—
Yield (t/ha)	0.2	0.2	0.3	0.2	0.4	0.3	0.3	0.2	0.5	—

(a) Data not collected.

PRINCIPAL CROPS, Gross Value—Years ended 30 June

	AUST. (a)			1996–97					
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Cereal for grain									
Barley	622.2	1 276.4	1 306.1	332.6	242.0	66.7	358.6	299.6	6.6
Grain sorghum	241.8	320.4	257.2	77.2	0.6	179.0	—	0.3	—
Maize	59.3	69.4	79.7	51.1	1.8	25.4	—	1.3	—
Oats	165.8	289.4	226.7	87.3	42.7	4.6	19.2	70.7	2.2
Rice	216.1	226.0	310.3	307.6	2.7	—	—	—	—
Triticale	35.4	94.7	106.5	49.2	29.1	1.0	20.8	5.1	1.3
Wheat	2 127.2	4 304.7	4 878.0	1 746.8	484.9	421.6	602.1	1 621.1	1.4
Legumes									
Lupins for grain	199.0	279.2	249.5	21.1	12.2	0.1	23.0	193.0	0.1
Field peas for grain	63.7	131.5	111.0	4.4	52.7	0.1	47.7	6.0	0.1
Crops for hay									
Cereals	145.8	208.9	142.3	24.9	22.4	6.2	39.0	48.9	0.9
Other	12.3	28.1	12.6	2.2	3.8	2.3	1.7	2.2	0.2
<i>Total</i>	<i>158.1</i>	<i>237.1</i>	<i>154.9</i>	<i>27.1</i>	<i>26.2</i>	<i>8.5</i>	<i>40.7</i>	<i>51.1</i>	<i>1.1</i>
Oilseeds									
Canola	96.7	207.9	238.6	126.5	48.1	—	21.4	42.6	—
Other oilseeds	62.4	53.4	86.8	38.2	6.1	40.9	1.6	0.1	—
Other crops									
Sugar cane cut for crushing	1 207.7	1 168.7	1 186.4	71.6	—	1 112.0	—	2.9	—
Cotton	851.2	1 002.8	1 342.4	933.1	—	409.1	—	0.2	—
Peanuts	17.4	28.2	35.0	0.8	—	34.1	—	—	—
Tobacco	39.7	45.5	53.7	—	24.8	28.8	—	—	—
Pastures and grasses									
Cut for hay									
Lucerne	187.8	179.3	126.2	47.0	27.7	31.7	12.3	4.3	3.0
Other	400.5	484.8	296.7	30.4	154.7	10.1	43.7	30.5	26.3
<i>Total</i>	<i>588.3</i>	<i>664.1</i>	<i>422.9</i>	<i>77.4</i>	<i>182.4</i>	<i>41.8</i>	<i>56.0</i>	<i>34.8</i>	<i>29.3</i>
Harvested for seed									
Pasture seed	53.2	63.3	55.5	8.6	22.0	2.6	14.0	5.9	2.2
<i>Total</i>	<i>641.5</i>	<i>727.4</i>	<i>478.4</i>	<i>86.0</i>	<i>204.4</i>	<i>44.5</i>	<i>70.0</i>	<i>40.7</i>	<i>31.5</i>
Total	6 805.2	10 462.5	11 101.2	3 960.6	1 178.3	2 376.2	1 205.0	2 334.7	44.2

(a) Includes the Northern Territory and the Australian Capital Territory.

SPECIAL ARTICLE — OILSEED INDUSTRY ...

INTRODUCTION

The specialist oilseed crops grown in Australia are canola, sunflower, soybeans and safflower. In 1996–97 this group in total produced 862,000 tonnes of oilseed crops, valued at \$325 million, of which 36% was exported.

The current dominant crop in the oilseed industry is canola. Production in 1996–97 stood at 623,000 tonnes, with 283,000 tonnes being exported. In 1986–87, production was 76,000 tonnes and exports were negligible.

This dramatic increase in production of canola is due to a number of factors. Farmers have seen the benefits of including oilseeds in crop rotations which has coincided with an increase in worldwide demand for canola. Changing attitude to foods containing animal fats and the use of oilseed meals in the manufacture of stockfeeds for intensive livestock industries have pushed prices to record levels.

In 1986–87, only 1,158 agricultural establishments reported growing canola whereas over three times that number (4,504) reported the crop in 1996–97. By comparison, the number of producers of sunflower and soybeans have fallen 52% (to 868) and 20% (to 1,064) respectively over the ten years. During this period, the number of safflower producers has fluctuated, with the current number 44% higher than in 1986–87.

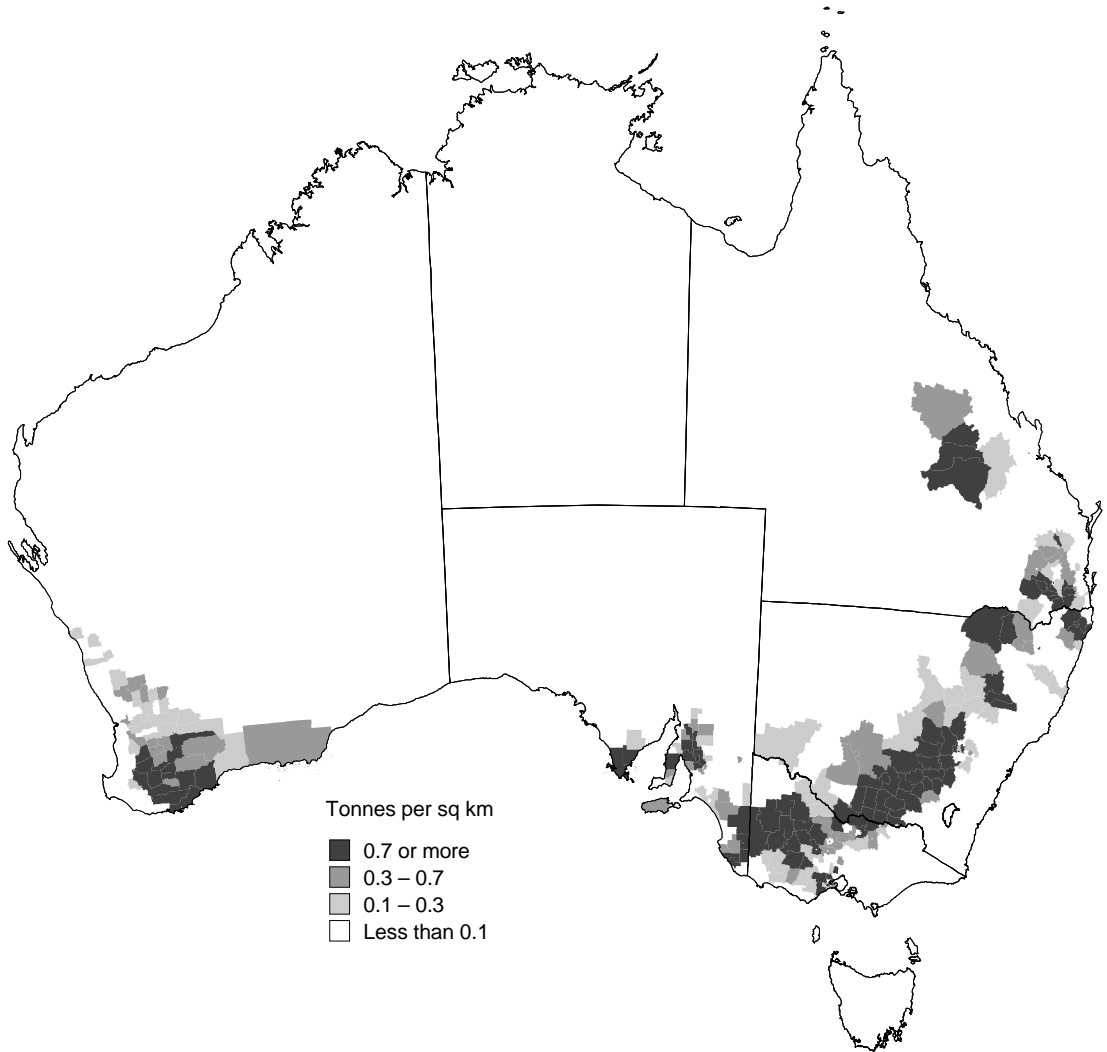
OILSEED PRODUCERS

	1986–87	1992–93	1993–94	1994–95	1995–96	1996–97
	no.	no.	no.	no.	no.	no.
Canola	1 158	1 512	2 459	4 240	4 281	4 504
Safflower	351	434	747	460	606	507
Soybeans	1 324	951	1 034	570	724	1 064
Sunflower	1 809	624	834	791	684	868

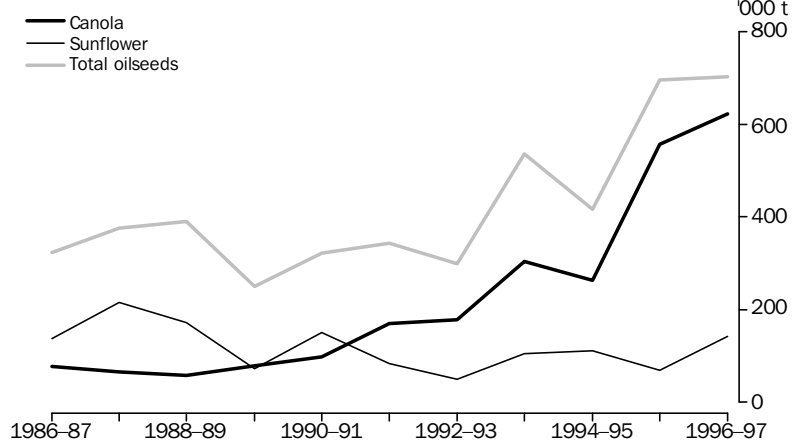
PRODUCTION

Results from the 1996–97 Agricultural Census show the area planted to the four major oilseed crops increased 19% over the previous year, with canola and sunflower plantings representing 66% and 22% respectively of the total area. Canola production rose to 623,000 tonnes, 12% more than the 1995–96 level, and eight times the production achieved in 1986–87. New South Wales continues to grow the most canola with 331,000 tonnes, 53% of the Australian harvest. The significant increase in canola contrasts with the more modest 4% increase in production of sunflower since 1986–87 to 143,000 tonnes.

OILSEED PRODUCTION, by region—1996–97



MAJOR OILSEED PRODUCTION



MAJOR OILSEEDS, By area, production and gross value

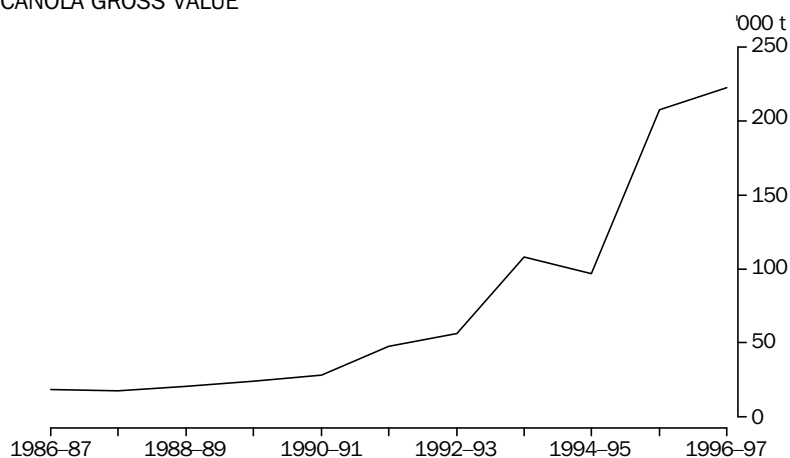
	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Canola											
Area ('000 ha)	65	58	43	50	73	151	107	177	356	377	407
Production ('000 t)	76	66	58	78	98	170	178	305	264	557	623
Value (\$m)	19	n.a.	n.a.	n.a.	28.3	48.3	56.8	108.0	96.7	207.9	238.6
Safflower											
Area ('000 ha)	30	38	47	33	19	39	32	54	30	40	35
Production ('000 t)	19	25	31	21	10	26	23	45	15	26	21
Value (\$m)	n.a.	n.a.	n.a.	n.a.	3.0	8.0	8.9	17.1	5.4	10.2	7.8
Soybeans											
Area ('000 ha)	54	43	71	49	40	30	30	41	18	24	39
Production ('000 t)	90	69	130	77	62	63	49	81	27	45	74
Value (\$m)	25.9	26.7	50.9	28.6	22.0	23.1	18.8	35.8	10.8	17.8	31.3
Sunflower											
Area ('000 ha)	193	200	185	66	166	79	60	113	136	82	139
Production ('000 t)	137	216	172	73	152	84	50	105	112	68	143
Value (\$m)	34.3	64.6	55.2	24.6	41.6	28.4	16.4	39.6	46.2	25.4	47.2

VALUE

In 1996-97, gross value of oilseeds stood at \$325 million, a rise of 24% on the previous year and over twice the 1986-87 value of \$85 million. The current canola crop value of \$239 million is 15% more than the 1995-96 crop, and over twelve times that of the 1986-87 crop of \$19 million.

Since 1986-87, the canola average unit price per year has risen from \$242 to \$383 per tonne. Over the same period, average unit prices for soybean, rose from \$295 to \$420 and sunflower unit prices increased from \$247 to \$329. During this period, average unit prices for wheat rose from \$147 to \$213. In 1990-91, while the average unit price of wheat was \$132, canola enjoyed a return of \$287, soybeans \$354 and sunflower \$275.

CANOLA GROSS VALUE



CONSUMPTION

The form in which most oilseed is consumed is in margarine. In 1996–97, 163,000 tonnes of margarine were produced in Australia, with 41,000 tonnes being exported. This left enough for each Australian to consume 6.6 kg of margarine per person while 2.7 kg of butter per capita was consumed. Over the last ten years, production of margarine has remained around the 160,000 tonne level despite current per capita consumption falling 25% from the 1986-87 level. Increasing exports have taken up the remainder.

TOTAL MARGARINE

	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Total production ('000 t)	161 988	159 668	162 486	150 058	174 272	162 716
Exports ('000 t)	18 160	19 729	22 071	25 249	30 932	41 176
Available for consumption ('000 t)	148 467	139 903	139 465	130 958	143 318	121 540
Per capita consumption(kg)	8.5	8.0	7.9	7.3	7.9	6.6

EXPORTS

In 1996–97, Australia exported 309,000 tonnes of the major oilseeds crop with a total value of \$143 million. Of these sales, 283,000 tonnes of canola were shipped, to earn \$124 million. Five years earlier, sunflower out-sold canola five to one when the combined major oilseed group exported 72,000 tonnes. In 1986–87, canola exports were negligible and only 12,000 tonnes of sunflower were sold on the overseas market, about half of it to Mexico.

Currently, Japan is our best customer for oilseeds, taking 205,000 tonnes of canola, 11,000 of safflower and 3,000 tonnes of soybean. Bangladesh purchased 78,000 tonnes of canola in 1996–97 while a handful of countries purchase less than 1,000 tonnes.

OILSEED EXPORTS

	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97
Canola						
tonnes	10 560	48 702	106 167	84 517	347 775	283 438
\$m	3.2	19.0	47.6	37.6	137.9	124.0
Safflower						
tonnes	12 212	22 056	21 050	19 862	10 518	17 536
\$m	4.7	9.5	9.2	8.3	4.6	8.3
Soybeans						
tonnes	997	2 865	4 338	4 359	2 386	3 649
\$m	0.6	1.7	2.9	3.1	1.8	2.4
Sunflower						
tonnes	48 454	1 052	1 976	10 527	3 534	4 444
\$m	16.4	3.1	3.7	9.3	6.9	8.2

FUTURE DEVELOPMENTS

A report, released in February 1998 by Australian Bureau of Agricultural and Resource Economics (ABARE), on the short and medium outlook for the oilseed industry forecast increased domestic production and strong international demand, along with higher world prices in 1997–98.

Increased meat consumption in the three largest East Asian economies has led to expanding animal numbers throughout the region. This herd growth has generated demand, not only for grain, but protein supplements based on oilseed meal in feed rations. ABARE expects this demand to increase over the next five years as Asian feed production is unlikely to match the rising demand.

ABARE has forecast Australia's canola harvest will reach 812,000 tonnes in 1997–98, 30% more than the 1996–97 ABS measure. Projections to the year 2002–03 suggest the canola crop increasing to approximately three and half times the existing level. While in 1996–97 sunflower has enjoyed its best year in nearly a decade, production is likely to fall in 1997–98, but ABARE projections indicate a gradual return to current levels.

Despite indications that production is expected to increase, Australia is still likely to remain a net importer of oilseed products.

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J. Delforce, I. Hussain, S. Hooper, T. Podbury, S. Hardcastle and S. Gordon, *Outlook for grains, oilseeds and pulses, Australian Bureau of Agricultural and Resource Economics, OUTLOOK 98 Vol 2.*

SECTION 6

HORTICULTURE

OVERVIEW

The gross value of fruit and nuts produced in Australia increased by 9.5% to \$2,423 million in 1996–97. All States recorded an increase, with New South Wales recording the largest increase of 26.0% to \$579 million. Victoria continued to be the major contributor with 25.2% (\$610 million) of the gross value of fruit and nuts.

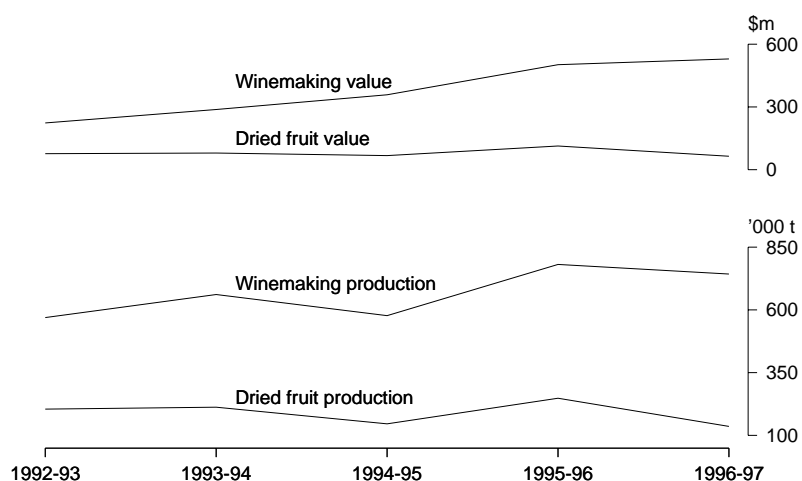
The gross value of vegetables increased by 3.2% to \$1,668 million; Tasmania recorded the largest increase of 14.0% to \$155 million. Queensland continued to be the major contributor, making up 27.2% of the total, with a value of \$454 million.

GRAPES

The Australian grape growing industry, while performing strongly in 1996–97, did not achieve the record yields experienced in the year 1995–96.

The area planted to grapes (both bearing and non-bearing) was 89,800 hectares, 11.5% higher than the 80,600 hectares reported in 1995–96. Yield decreased from 16.8 tonnes per hectare to 13.1 tonnes per hectare in 1996–97. Production of wine grapes decreased by 5.0% to 743,400 tonnes. While total grape production decreased 13.2%, the total grape gross value recorded an increase of 1.0% to \$721 million. This was due to the strong export prices for fresh grapes (an increase of 12.7% over the previous year), resulting in an increase in average gross unit value of 11.5% to \$715.34 per tonne.

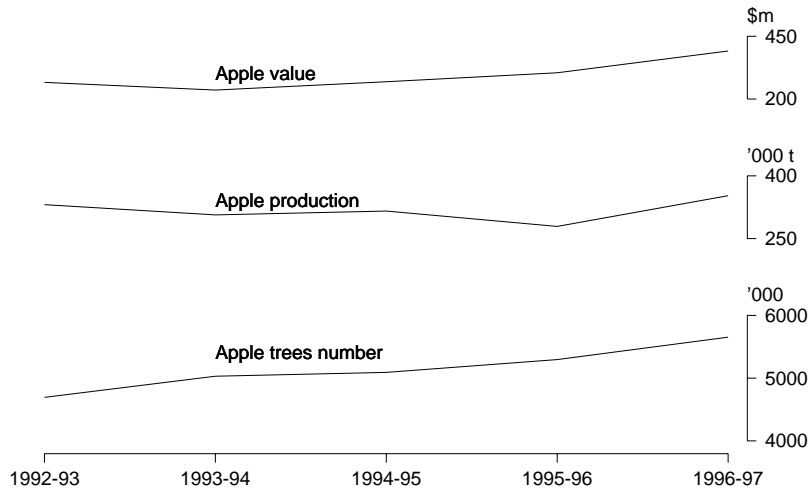
Production of dried grapes fell by 45.1% to 136,400 tonnes, back to the levels experienced in 1994–95. The reduced production was caused from frosts, reduced yields, and a shift towards wine grapes from sultanas to attract premium prices. In 1996–97, the gross value of dried grapes was \$66 million.



APPLES

After a poor crop in 1995–96, apple production increased 26.0% to 353,100 tonnes in 1996–97, due to a return to high pre 1995–96 yields. Production in Victoria rose 50.6%, along with a significant rise in New South Wales (up 34.6%). Victoria was Australia's biggest contributor to apple production, its 119,000 tonnes supplying 33.7% of the Australian total.

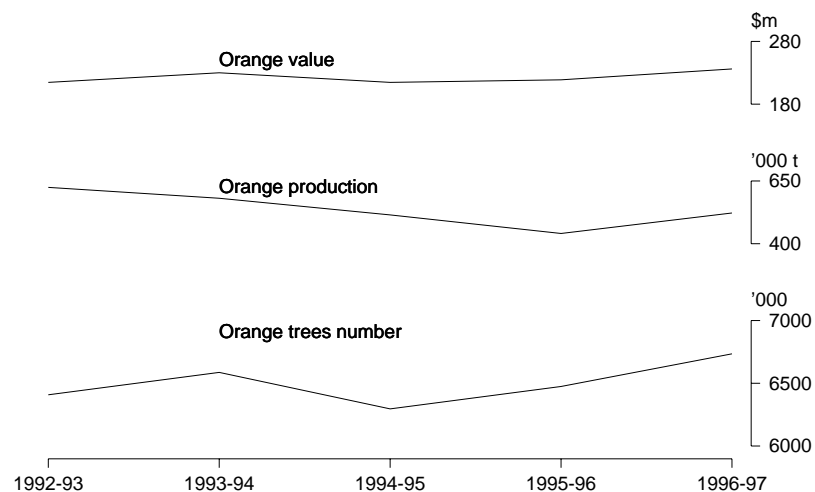
The gross value increased by 28.9% to \$393 million, with increases in all States except Queensland.



ORANGES

After a poor season in 1995–96, establishments growing oranges reported a much better year in 1996–97. While tree numbers rose slightly to 6.7 million (up 4.0%), production increased significantly to 522,600 tonnes, up 18.2% on the 442,100 reported in 1995–96. The increase in production resulted from an increase in yield to 77.6 kg per tree. New South Wales and Victoria recorded increases in production of 30.3% to 231,500 tonnes and 22.9% to 89,000 tonnes respectively.

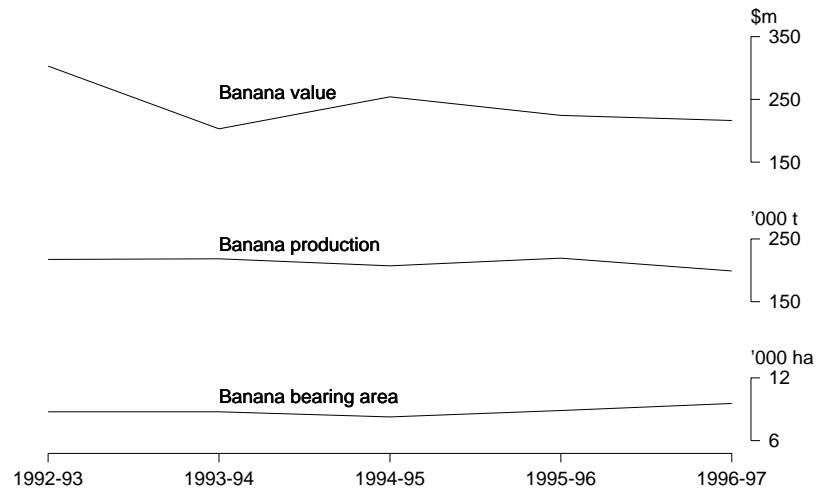
The gross value of oranges increased by 20.1% to \$264 million; New South Wales recorded the largest increase of 70.2% to \$116 million, followed by Victoria with 18.6% to \$48 million.



BANANAS

While the area planted to bananas increased from 8,900 hectares to 9,600 hectares (up 7.8%) in 1996–97, production fell 9.3% to 199,600 tonnes. The decline in production was due to a 13.2% decrease in production in Queensland.

Despite an increase of 6.2% in the average gross unit value of bananas to \$1,085 per tonne, the estimated gross value decreased by 3.7% to \$216.6 million. This was largely due to a fall of 13.9% in Queensland, while New South Wales recorded an increase of 23.4% (\$53 million).



PEARS

Production of pears improved from the 1995–96 figure of 156,000 tonnes, up 7.4% to 167,600 tonnes in 1996–97 (compared with 175,700 tonnes in 1991–92). Victoria was Australia's largest pear producer, accounting for 87.2% of production. The Victorian crop of 146,100 tonnes was 8.0% higher than the 135,200 tonnes reported in 1995–96.

The gross value of pears increased by 16.9% to \$106 million (compared to \$127 million in 1991–92).

MANGOES

Production of mangoes increased by 19.0% to 32,400 tonnes (compared to 2,900 tonnes in 1986–87) and yield increased to 48.3 kg per tree. Queensland was Australia's largest mango producer at 28,400 tonnes which was 87.5% of the total Australian production of mangoes, and a 21.9% increase on 1996–97.

The gross value of mangoes decreased by 5.0% to \$70 million (compared to \$6.7 million in 1986–87), as a result of a significant drop in average gross unit value.

PEACHES

Production of peaches increased by 19.4% to 72,100 tonnes (compared to 66,000 tonnes in 1987–88), while tree numbers rose 13.8% to 1.5 million (compared to 1.1 million in 1987–88).

Total gross value of production of peaches increased by 19.4% to \$60 million (compared to \$45 million in 1987–88).

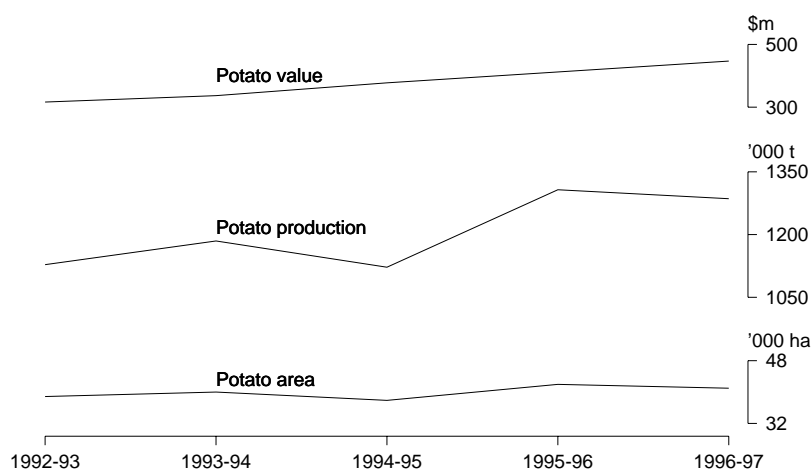
APRICOTS

Production of apricots increased by 19.8% to 25,900 tonnes (compared to 31,800 tonnes in 1991–92), despite a slight reduction in tree numbers in 1996–97. The improved production was due to an increase in yield to 41.2 kg per tree.

The gross value of apricots increased by 38.1% to \$42 million (compared to \$38 million in 1991–92).

POTATOES

Production of potatoes decreased by 1.7% to 1.3 million tonnes, while area planted fell marginally to 41,100 hectares. Tasmania is Australia's largest potato producer, accounting for 24.7% of the total production. The gross value of potatoes increased by 8.3% to \$448 million. The average gross unit value of potatoes increased by 10.2% to \$348.73 per tonne.



TOMATOES

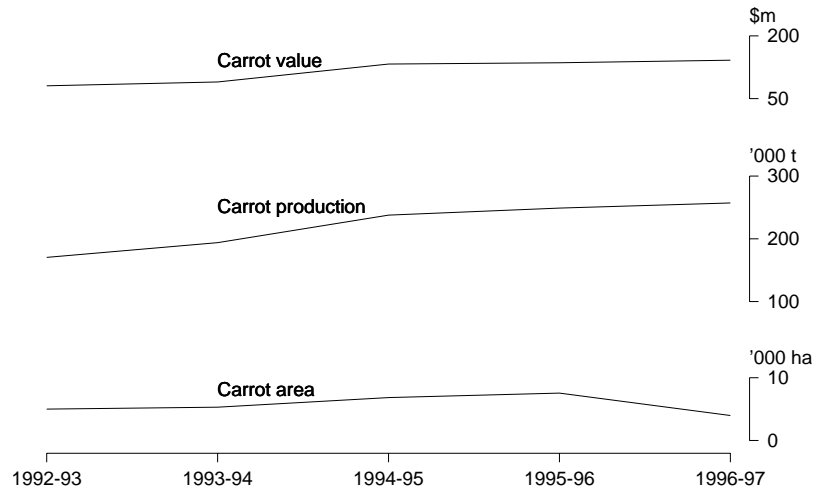
Production of tomatoes increased by 6.0% to 393,100 tonnes (compared to 364,100 tonnes in 1990–91). Victoria accounted for 42.6% of the Australian tomato crop.

The total gross value of tomatoes increased slightly, to \$177 million (compared to \$183.8 million in 1990–91), while the average gross unit value decreased by 5.3% to \$450.00 per tonne.

CARROTS

Production of carrots was 257,400 tonnes in 1996–97, 3.0% higher than the 1995–96 figure. This was despite a fall in area of 6.8% to 7,000 hectares. Yield increased from 33.0 tonnes per hectare to 36.5 tonnes per hectare in 1996–97. Victoria produced 38.6% (99,300 tonnes) of the total production.

The total gross value of carrots increased by 4.2% to \$142 million. The average gross unit value increased by 1.2% to \$551.95 per tonne.



ONIONS

Production of onions decreased by 19.6% to 196,500 tonnes (compared to 222,300 tonnes in 1990–91) after a 22.0% increase (244,500 tonnes) in 1995–96. Due to adverse weather conditions in Tasmania production fell by 34.5% to 59,700 tonnes.

The gross value of onions also decreased, by 19.2% to \$91 million (compared to \$76.3 million in 1990–91), although there was a slight increase in the average gross unit value to \$465.54 per tonne.

FRUIT, Production, Tree Numbers or Area and Yield(a)—Years ended 31 March

Fruit or nut	AUST.			1997						
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT
Citrus										
Oranges										
Production (t)	517 242	442 077	522 622	231 543	88 963	16 126	180 683	5 308	(b)	(b)
Trees ('000)	6 297	6 478	6 737	3 305	1 194	208	1 868	162	(b)	(b)
Yield (kg/tree)	82.1	68.2	77.6	70.1	74.5	77.5	96.7	32.7	..	..
Lemons and limes										
Production (t)	33 873	30 614	32 991	5 679	6 371	6 428	13 706	794	(b)	12
Trees ('000)	383	403	389	117	95	71	91	15	(b)	—
Yield (kg/tree)	88.4	76.0	84.9	48.5	67.1	90.5	150.6	52.9	..	—
Mandarins										
Production (t)	58 630	62 017	72 937	5 566	5 319	44 566	16 004	1 472	(b)	9
Trees ('000)	729	824	1 074	128	108	630	156	53	(b)	—
Yield (kg/tree)	80.4	75.3	67.9	43.6	49.4	70.8	102.7	27.8	..	—
Pome										
Apples										
Production (t)	316 555	280 147	353 069	83 231	118 968	28 045	28 865	38 218	55 649	(b)
Trees ('000)	5 101	5 302	5 656	1 318	1 516	545	553	620	1 103	(b)
Yield (kg/tree)	62.1	52.8	62.4	63.2	78.5	51.5	52.2	61.7	50.5	..
Pears (excl. Nashi)										
Production (t)	151 750	156 022	167 562	3 195	146 060	1 496	6 136	9 932	742	(b)
Trees ('000)	1 317	1 384	1 416	53	1 115	27	81	123	16	(b)
Yield (kg/tree)	115.2	112.7	118.3	60.3	131.0	55.4	75.6	80.6	46.4	..
Stone										
Apricots										
Production (t)	29 753	21 640	25 920	926	8 936	277	15 235	341	205	(b)
Trees ('000)	642	634	629	34	202	23	329	13	28	(b)
Yield (kg/tree)	46.3	34.1	41.2	27.1	44.2	12.0	46.3	26.2	7.3	..
Cherries										
Production (t)	5 766	4 783	6 683	3 439	2 008	2	948	101	185	(b)
Trees ('000)	480	571	625	378	127	—	63	20	38	(b)
Yield (kg/tree)	12.0	8.4	10.7	9.1	15.8	—	15.1	5.1	4.9	..
Nectarines										
Production (t)	16 914	18 248	21 887	8 030	7 033	2 556	1 362	2 859	41	(b)
Trees ('000)	644	781	850	347	213	150	32	102	6	(b)
Yield (kg/tree)	26.3	23.4	25.7	23.1	33.0	17.0	42.7	28.2	6.8	..
Peaches										
Production (t)	58 665	60 390	72 099	15 411	43 487	3 297	7 694	2 191	17	(b)
Trees ('000)	1 247	1 296	1 475	490	609	168	125	80	3	(b)
Yield (kg/tree)	47.0	46.6	48.9	31.5	71.4	19.7	61.5	27.3	5.6	..
Plums and prunes										
Production (t)	21 347	21 429	25 187	10 409	4 618	1 972	4 271	3 912	6	(b)
Trees ('000)	905	902	931	398	157	129	98	148	2	(b)
Yield (kg/tree)	23.6	23.8	27.0	26.2	29.5	15.3	43.6	26.5	3.9	..

(a) Yield derived based on number of trees six years and over.

(b) Data not collected.

FRUIT, Production, Tree Numbers or Area and Yield(a)—Years ended 31 March *continued*

Fruit or nut	AUST.			1997						
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT
Other orchard n.e.i.										
Avocados										
Production (t)	15 640	16 416	20 072	4 199	1 783	11 744	901	1 445	(b)	(b)
Trees ('000)	387	414	440	94	32	247	18	49	(b)	(b)
Yield (kg/tree)	40.4	39.7	45.6	44.5	55.7	47.6	50.1	29.3	..	..
Mangoes										
Production (t)	29 603	27 236	32 403	273	(b)	28 366	(b)	1 095	(b)	2 668
Trees ('000)	515	608	671	21	(b)	559	(b)	27	(b)	64
Yield (kg/tree)	57.5	44.8	48.3	13.0	..	50.7	..	40.6	..	41.8
Nuts										
Almonds (kernel)										
Production (t)	5 028	5 021	5 893	144	3 731	1	2 014	3	—	(b)
Trees ('000)	894	913	947	11	407	1	525	3	—	(b)
Yield (kg/tree)	5.6	5.5	6.2	13.1	9.2	1.7	3.8	0.8	—	..
Macadamia										
Production (t)	11 503	13 587	16 053	9 675	(b)	6 374	—	3	(b)	(b)
Trees ('000)	1 167	1 511	1 846	1 077	(b)	768	—	1	(b)	(b)
Yield (kg/tree)	9.9	9.0	8.7	9.0	..	8.3	—	4.6	..	..
Currants (black)										
Production (t)	633	665	933	—	(b)	(b)	4	(b)	928	(b)
Area (ha)	137	163	153	1	(b)	(b)	—	(b)	151	(b)
Yield (t/ha)	4.6	4.1	6.1	—	..	..	—	..	6.1	..
Kiwifruit										
Production (t)	4 280	3 422	3 381	418	2 255	255	—	453	(b)	(b)
Area (ha)	457	330	481	89	329	35	4	25	(b)	(b)
Yield (t/ha)	9.4	10.4	7.0	4.7	6.9	7.4	—	18.1	..	..
Raspberries										
Production (t)	399	370	361	31	208	10	5	2	105	(b)
Area (ha)	167	173	181	35	90	4	7	1	44	(b)
Yield (t/ha)	2.4	2.1	2.0	0.9	2.3	2.2	0.7	1.6	2.4	..
Strawberries										
Production (t)	8 532	10 808	11 242	210	3 376	3 755	1 322	2 444	129	—
Area (ha)	584	637	701	34	221	242	74	106	20	—
Yield (t/ha)	14.6	17.0	16.0	6.2	15.3	15.5	17.9	23.1	6.5	—
Tropical										
Bananas										
Production (t)	208 102	220 047	199 581	38 914	(b)	143 748	(b)	13 360	(b)	3 559
Area (ha)	8 281	8 893	9 589	3 128	(b)	5 957	(b)	375	(b)	129
Yield (t/ha)	25.1	24.7	20.8	12.4	..	24.1	..	35.7	..	27.6
Papaw										
Production (t)	6 225	5 726	6 108	124	(b)	5 793	(b)	174	(b)	18
Area (ha)	320	316	321	10	(b)	300	(b)	9	(b)	2
Yield (t/ha)	19.5	18.1	19.0	13.0	..	19.3	..	19.6	..	7.5
Pineapples										
Production (t)	138 503	127 864	122 981	1	(b)	122 980	(b)	(b)	(b)	—
Area (ha)	3 209	2 824	2 668	1	(b)	2 667	(b)	(b)	(b)	—
Yield (t/ha)	43.2	45.3	46.1	0.7	..	46.1	..	..	..	—

(a) Yield derived based on number of trees six years and over.

(b) Data not collected.

PRODUCTION OF GRAPES(a), Area of Vines and Yield—Years ended 31 March

	AREA OF VINES AT HARVEST.....			GRAPE PRODUCTION (fresh weight).....					
	Bearing	Not yet bearing; planted or grafted prior to collection year	Not yet bearing; planted or grafted during collection year	Total	Winemaking	Drying	Table and other	Total	Yield
	ha	ha	ha	ha	t	t	t	t	t/ha
Australia									
1995	62 542	(b)4 446	(b)5 981	72 969	(b)577 896	(b)147 006	(b)44 456	769 359	12.3
1996	64 845	8 900	6 815	80 559	782 381	248 342	55 786	1 086 509	16.8
1997	72 119	9 615	8 063	89 797	743 382	136 435	63 296	943 113	13.1
1997									
NSW	15 898	1 802	2 290	19 990	174 265	24 364	11 273	209 901	13.2
Vic.	21 338	2 416	1 602	25 356	181 772	106 662	41 253	329 687	15.5
Qld	1 048	123	154	1 325	746	—	3 784	4 530	4.3
SA	30 270	4 741	3 535	38 546	367 792	4 245	2 551	374 589	12.4
WA	3 106	430	432	3 969	17 295	1 164	3 337	21 796	7.0
Tas.	341	102	41	484	1 497	—	—	1 497	4.4
NT	107	—	8	115	—	—	1 099	1 099	10.3
ACT	12	1	1	14	15	—	—	15	1.3

(a) Varietal information is available in *Australian Wine and Grape Industry* (Cat. no. 1329.0).

(b) Excludes the Northern Territory and the Australian Capital Territory.

FRUIT, Gross Value—Years ended 30 June

	AUST.(a).....			1996–97.....					
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.
<i>Fruit</i>	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Citrus									
Oranges	214.8	219.5	263.6	116.2	48.3	11.0	86.1	2.2	—
Lemons and limes	18.9	26.9	31.1	9.9	3.1	7.3	10.2	0.5	—
Mandarins	70.8	70.7	86.9	7.1	7.0	56.7	13.9	2.1	—
Pome									
Apples	269.8	305.3	393.4	98.0	124.4	26.8	48.7	41.3	54.2
Pears (excl. Nashi)	73.4	90.7	106.1	1.8	87.1	1.0	7.4	8.1	0.6
Stone									
Apricots	28.8	30.7	42.4	2.5	6.5	0.5	32.1	0.5	0.4
Cherries	27.2	22.7	34.0	13.8	8.3	—	8.4	1.1	2.2
Nectarines	37.0	40.1	41.2	14.0	12.3	4.8	3.6	6.4	0.1
Peaches	50.0	50.3	60.1	15.6	27.4	5.2	8.2	3.7	—
Plums and prunes	31.9	33.4	38.6	16.8	5.0	3.1	6.6	7.0	—
Other orchard n.e.i.									
Avocados	39.5	37.5	42.1	7.7	3.3	24.7	2.4	3.9	—
Mangoes	73.0	73.3	69.6	0.7	—	54.9	—	4.8	—
Almonds	28.5	40.0	39.1	0.8	24.9	—	13.4	—	—
Macadamia	40.7	61.6	54.8	36.8	—	18.0	—	—	—
Small, berry and tropical fruit									
Kiwifruit	5.7	5.3	6.0	0.8	3.6	0.4	0.1	1.2	—
Raspberries	2.9	3.0	3.3	0.3	2.0	0.3	—	—	0.7
Strawberries	45.6	54.1	56.0	0.9	13.3	22.0	8.3	10.8	0.6
Bananas	254.7	224.9	216.6	53.0	—	140.6	—	18.9	—
Pawpaw	6.9	6.8	6.3	0.1	—	5.7	—	0.4	—
Grapes									
Winemaking	358.4	503.0	531.8	125.8	89.7	0.4	290.1	22.7	3.0
Drying	68.5	115.9	66.3	11.7	50.6	—	2.9	1.1	—
Table and other	84.2	95.4	123.4	19.3	74.4	14.0	5.3	5.4	—
Other fruit n.e.c.									
	106.3	101.8	110.1	25.8	18.4	53.4	7.7	2.9	1.2
Total fruit and nuts	1 937.4	2 213.2	2 422.7	579.4	609.7	450.8	555.7	144.8	63.0

(a) Includes the Northern Territory and the Australian Capital Territory.

VEGETABLES, Production, Area and Yield—Years ended 31 March

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Asparagus											
Production (t)	6 216	7 415	7 884	2 534	4 252	821	123	111	13	31	—
Area (ha)	1 785	1 877	2 139	483	1 276	279	25	44	11	22	—
Yield (t/ha)	3.5	4.0	3.7	5.3	3.3	2.9	5.0	2.5	1.2	1.4	—
Beans, French and runner											
Production (t)	29 407	32 014	37 609	2 197	2 038	18 391	128	690	14 154	11	—
Area (ha)	6 057	7 102	7 899	821	633	4 523	37	212	1 668	6	—
Yield (t/ha)	4.9	4.5	4.8	2.7	3.2	4.1	3.5	3.3	8.5	1.8	—
Beetroot											
Production (t)	27 833	28 015	29 304	2 871	664	25 524	117	128	—	—	—
Area (ha)	878	956	894	119	51	708	9	8	—	—	—
Yield (t/ha)	31.7	29.3	32.8	24.1	13.0	36.1	13.0	16.8	—	—	—
Broccoli											
Production (t)	31 694	37 804	40 546	3 407	19 198	9 116	1 828	2 649	4 253	—	96
Area (ha)	5 673	6 979	6 961	733	3 384	1 619	305	384	515	—	20
Yield (t/ha)	5.6	5.4	5.8	4.6	5.7	5.6	6.0	6.9	8.3	—	4.8
Cabbages and brussels sprouts											
Production (t)	76 051	76 213	66 001	11 124	25 375	13 920	7 131	5 075	3 376	—	—
Area (ha)	2 379	2 493	2 152	417	783	435	279	148	139	—	—
Yield (t/ha)	32.0	30.6	30.7	26.7	32.4	32.0	31.1	34.3	24.3	—	—
Capsicum, chillies and peppers											
Production (t)	27 662	30 398	32 221	559	3 353	24 403	1 542	2 226	8	130	—
Area (ha)	1 574	1 649	1 875	70	215	1 325	113	139	1	12	—
Yield (t/ha)	17.6	18.4	17.2	8.0	15.6	18.4	13.6	16.0	13.8	10.8	—
Carrots											
Production (t)	238 539	249 926	257 405	13 765	99 274	28 522	40 307	52 992	22 546	—	—
Area (ha)	6 887	7 564	7 046	630	2 620	1 033	970	1 319	474	—	—
Yield (t/ha)	34.6	33.0	36.5	21.8	37.9	27.6	41.5	40.2	47.6	—	—
Cauliflowers											
Production (t)	66 105	71 052	64 391	11 691	17 409	10 518	3 709	16 213	4 851	—	—
Area (ha)	3 741	3 968	3 997	635	1 243	519	220	1 076	306	—	—
Yield (t/ha)	17.7	17.9	16.1	18.4	14.0	20.3	16.9	15.1	15.9	—	—
Celery											
Production (t)	38 631	47 996	44 873	195	22 403	11 717	4 247	5 922	389	—	—
Area (ha)	765	896	953	8	514	243	46	125	16	—	—
Yield (t/ha)	50.5	53.6	47.1	24.4	43.6	48.1	92.3	47.3	24.3	—	—
Cucumbers											
Production (t)	14 144	16 523	15 876	5 264	795	6 778	1 153	1 726	157	4	—
Area (ha)	1 020	1 106	1 002	409	37	423	46	85	2	—	—
Yield (t/ha)	13.9	14.9	15.9	12.9	21.6	16.0	25.2	20.4	87.1	—	—
Peas											
Processing											
Production (t)	43 603	36 179	42 207	4 689	11	3 399	—	1 751	32 356	—	—
Area (ha)	9 350	7 748	8 737	1 114	10	596	—	803	6 213	—	—
Yield (t/ha)	4.7	4.7	4.8	4.2	1.1	5.7	—	2.2	5.2	—	—
Sold in pod											
Production (t)	1 973	1 175	1 380	414	195	167	42	8	553	—	—
Area (ha)	469	494	580	230	146	61	18	5	119	—	—
Yield (t/ha)	4.2	2.4	2.4	1.8	1.3	2.7	2.4	1.6	4.6	—	—

VEGETABLES, Production, Area and Yield—Years ended 31 March *continued*

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Lettuces											
Production (t)	92 454	107 243	110 834	12 967	36 557	42 251	6 085	10 197	2 457	180	140
Area (ha)	4 012	4 690	4 730	650	1 969	1 352	267	325	141	16	10
Yield (t/ha)	23.0	22.9	23.4	19.9	18.6	31.2	22.8	31.4	17.4	11.3	14.0
Marrows, squashes and zucchinis											
Production (t)	13 453	13 956	13 442	1 859	1 035	8 942	163	750	669	19	5
Area (ha)	1 690	1 825	2 006	235	171	1 387	39	105	65	3	2
Yield (t/ha)	8.0	7.6	6.7	7.9	6.1	6.4	4.1	7.1	10.3	6.3	2.5
Melons											
Water											
Production (t)	72 263	79 279	86 658	6 058	1 155	55 262	463	22 950	—	771	—
Area (ha)	3 963	4 228	4 346	339	57	3 037	23	858	—	34	—
Yield (t/ha)	18.2	18.8	19.9	17.9	20.3	18.2	20.1	26.8	—	22.7	—
Rock and cantaloupe											
Production (t)	69 925	72 294	71 873	11 094	7 856	36 890	3 703	10 454	—	1 877	—
Area (ha)	3 099	3 093	3 162	577	338	1 369	204	569	—	106	—
Yield (t/ha)	22.6	23.4	22.7	19.2	23.2	27.0	18.1	18.4	—	17.8	—
Mushrooms											
Production (t)	33 337	34 945	35 485	12 260	14 237	4 165	2 653	1 315	856	—	—
Area (ha)	166	165	145	53	61	15	10	6	1	—	—
Yield (t/ha)	200.8	211.8	244.1	231.3	233.4	277.7	265.3	219.2	658.2	—	—
Onions, white and brown											
Production (t)	200 432	244 484	196 491	13 816	15 615	21 789	65 274	20 321	59 677	—	—
Area (ha)	5 165	5 492	4 756	719	529	651	1 276	389	1 192	—	—
Yield (t/ha)	38.8	44.5	41.3	19.2	29.5	33.5	51.2	52.2	50.1	—	—
Parsnips											
Production (t)	6 507	9 358	10 263	460	7 238	84	339	851	1 290	—	—
Area (ha)	395	418	464	41	286	8	19	70	40	—	—
Yield (t/ha)	16.5	22.4	22.1	11.2	25.3	10.2	18.0	12.2	32.1	—	—
Potatoes											
Production (t)	1 122 417	1 308 099	1 286 130	136 173	315 727	115 435	285 344	116 004	317 448	—	—
Area (ha)	37 642	41 812	41 083	5 959	11 352	4 697	8 618	3 022	7 436	—	—
Yield (t/ha)	29.8	31.3	31.3	22.9	27.8	24.6	33.1	38.4	42.7	—	—
Pumpkins											
Production (t)	76 678	96 463	87 086	19 731	4 595	38 688	6 895	14 513	1 885	779	—
Area (ha)	5 390	6 628	6 289	1 379	313	3 352	329	755	107	54	—
Yield (t/ha)	14.2	14.6	13.8	14.3	14.7	11.5	20.9	19.2	17.6	14.6	—
Sweet corn											
Production (t)	74 055	81 901	64 785	34 273	7 366	14 822	1 294	1 668	5 352	11	—
Area (ha)	5 488	6 472	5 434	2 408	743	1 697	96	163	321	6	—
Yield (t/ha)	13.5	12.7	11.9	14.2	9.9	8.7	13.5	10.2	16.7	1.6	—
Tomatoes											
Production (t)	340 033	370 913	393 117	102 795	167 563	109 911	3 069	9 038	682	60	—
Area (ha)	8 657	8 580	8 830	2 035	2 661	3 753	150	218	11	2	—
Yield (t/ha)	39.3	43.2	44.5	50.5	63.0	29.3	20.4	41.5	59.8	30.0	—
Total area (ha)	129 057	131 421	129 749	20 640	30 563	34 663	13 331	11 114	19 133	268	34

VEGETABLES, Gross Value—Years ended 30 June

	AUST.(a)			1996-97.....					
	1994-95	1995-96	1996-97	NSW	Vic.	Qld	SA	WA	Tas.
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Asparagus	36.4	37.7	37.5	12.5	18.3	4.9	0.8	0.7	0.1
Beans, French and runner	38.5	42.6	41.4	1.9	4.4	27.8	0.3	1.6	5.5
Broccoli	51.0	53.6	60.8	6.0	28.0	15.1	2.9	3.5	5.2
Cabbages and brussels sprouts	r39.9	r40.3	41.8	4.6	11.5	10.5	7.6	5.1	2.4
Capsicums, chillies and peppers	41.2	43.8	40.6	0.5	3.4	28.6	4.5	3.3	—
Carrots	132.7	136.4	142.1	5.6	61.2	14.5	20.4	32.1	8.3
Cauliflowers	44.5	48.3	48.1	6.0	11.5	4.8	3.1	19.9	2.7
Celery	21.9	26.1	31.1	0.1	16.5	6.2	3.1	4.7	0.4
Cucumbers	15.5	17.8	16.3	3.4	1.1	7.2	1.6	2.7	0.4
Green peas (pod weight)	16.5	14.1	18.1	2.3	0.4	1.7	0.1	0.9	12.8
Lettuces	69.6	76.8	75.9	10.9	20.7	29.5	4.6	7.4	2.5
Marrows and zucchini	16.8	19.7	20.2	2.4	2.4	10.7	0.4	1.9	2.4
Watermelons	23.4	20.3	29.9	1.9	0.7	18.0	0.1	8.8	—
Rockmelons/cantaloupes	51.5	53.3	57.7	6.4	6.8	25.4	3.2	13.5	—
Mushrooms(b)	125.5	127.9	131.0	39.0	59.7	15.0	11.5	5.7	(c)
Onions, white and brown	79.1	113.3	91.5	5.8	5.8	12.8	41.8	8.9	16.3
Potatoes	377.9	414.1	448.5	49.4	123.5	52.3	100.6	38.0	84.8
Pumpkins	29.5	28.2	37.8	9.7	1.1	15.6	3.8	6.5	0.5
Sweet corn	30.6	35.4	26.5	8.5	7.2	6.7	1.2	1.9	0.9
Tomatoes	166.2	176.2	176.9	16.9	36.6	111.9	4.8	5.8	1.0
Other vegetables	r83.4	r90.3	89.2	9.5	24.3	29.1	8.9	8.4	9.0
Total vegetables	1 491.6	1 616.1	1 663.0	203.2	445.1	448.2	225.3	181.3	155.1

(a) Includes the Northern Territory and the Australian Capital Territory.

(b) Incomplete; excludes Tasmania.

(c) Not available for publication; included in 'Other vegetables'.

SECTION 7

LIVESTOCK AND LIVESTOCK PRODUCTS

OVERVIEW

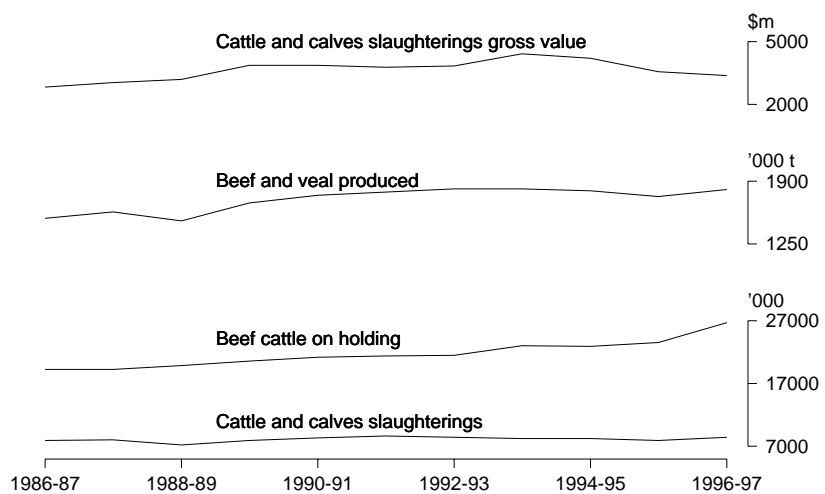
Seasonal conditions improved in the eastern States in 1996–97. Cattle stocks increased marginally but the number of sheep and lambs decreased slightly, falling below the levels of 1994–95.

The gross value of livestock slaughterings and other disposals fell marginally (1.2%) to \$6,190 million, while the gross value of livestock products increased by 0.8% to \$5,754 million, due mainly to higher wool prices..

BEEF CATTLE

At 31 March 1997, there were 23.8 million beef cattle and calves, a marginal increase on the previous year. The Northern Territory, Queensland and New South Wales were the only States to record an increase in the number of beef cattle, with increases of 7.1%, 2.0% and 1.6% respectively.

While the number of beef cattle increased slightly, the number of establishments reporting beef cattle continued to fall. Establishments with beef cattle numbered 81,946 at 31 March 1997, down 1.6% on the figure recorded at 31 March 1996 (83,255).



The number of cattle and calves slaughtered in the year ended 30 June 1997 increased 6.4% to 8,442,000. As a result, production of beef and veal increased 4.1% to 1.8 million tonnes. The gross value of cattle and calves slaughtered decreased 5.2% despite the rise in production, as average gross unit values decreased.

BEEF CATTLE *continued*

Live cattle exports increased 40.3% as the industry continued to show improvement during 1996–97, mainly due to the increased exports to Asian markets such as Indonesia and the Philippines. The value of these exports was \$428 million, an increase of 24.4% on 1995–96.

LIVE CATTLE EXPORTS(a)—Years ended 30 June

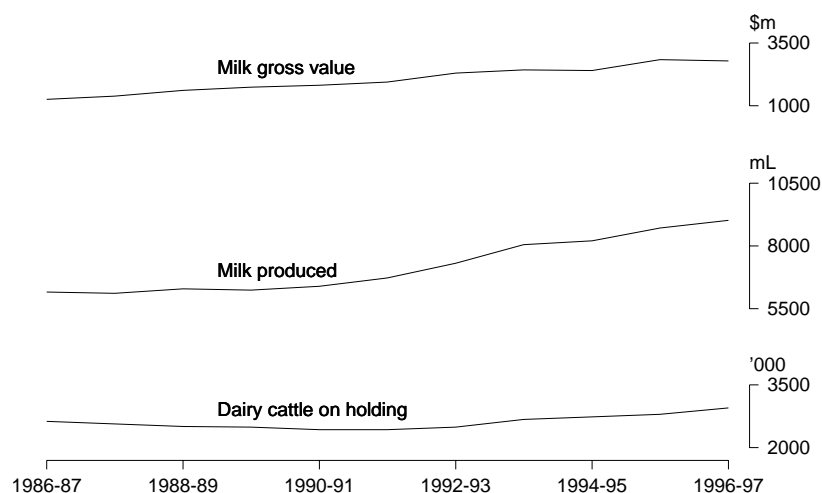
	1994–95	1995–96	1996–97
Number ('000)	385.7	615.9	863.8
Gross weight ('000 t)	136.5	219.0	313.9
Gross value (\$'000)	201 948	343 699	427 721
Unit value (\$)(b)	523.52	558.07	495.16

(a) Excludes cattle for breeding.

(b) Obtained by dividing the gross value by the number of cattle exported.

DAIRY CATTLE

The number of dairy cattle at 31 March 1997 increased by 5.3% to 3.0 million. All States recorded an increase in dairy cattle numbers, the largest being in Tasmania (7.1%) and Victoria (6.1%). The Western Australian dairy cattle herd showed a slight increase after a 4.0% fall in the year ended 31 March 1996. The dairy cattle herd accounted for 11.0% of all cattle and calves. The number of establishments reporting dairy cattle fell by 1.2% to 15,485, with the average dairy cattle herd at 191, up from 179 in 1995–96. Milk production rose by 3.5% to 9,024 million litres, with Victoria producing 62.3% of the total. The gross value of milk production decreased slightly to \$2,809 million, reflecting lower overall average prices.

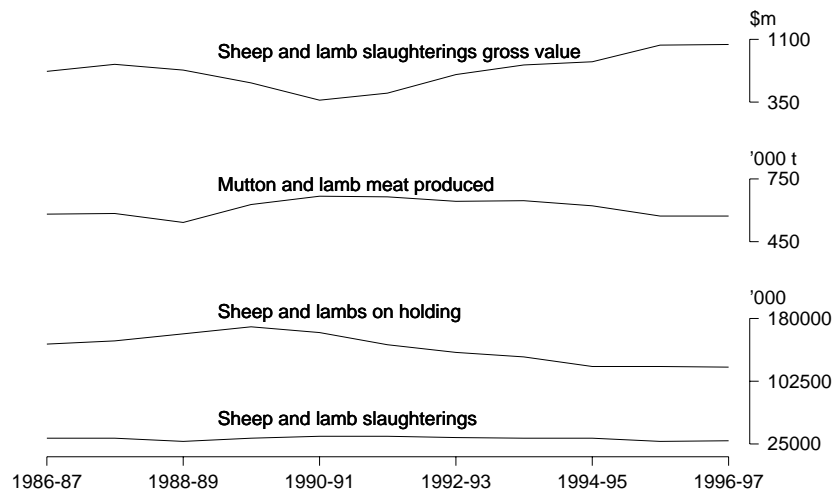


SHEEP

Sheep and lamb numbers declined 0.7% to 120.2 million at 31 March 1997. Western Australia suffered the biggest loss in sheep numbers, down 6.7% to 27.8 million. South Australia recorded a 3.5% drop in sheep and lamb numbers.

The number of establishments reporting sheep and lambs fell by 2.1% to 56,083, with all States recording a decrease. New South Wales reported the most establishments with sheep and lambs at 19,592, down 1.7% on the figure at 31 March 1996.

Sheep and lamb slaughterings rose 1.7% to 29.3 million for the year ended 30 June 1997. Mutton and lamb meat production remained unchanged over the same period.



The gross value of sheep and lamb slaughterings remained virtually unchanged at \$1,039 million. Exports of live sheep decreased by 10.9%, resulting in a fall in the value of these exports by 16.3% to \$190 million. Average gross unit value fell slightly to \$36.27.

LIVE SHEEP EXPORTS(a)—Years ended 30 June

	1994-95	1995-96	1996-97
Number ('000)	5 697.0	5 879.9	5 237.2
Gross weight ('000 t)	290.2	296.9	269.8
Gross value (\$'000)	184 291	226 913	189 944
Unit value (\$)(b)	32.35	38.59	36.27

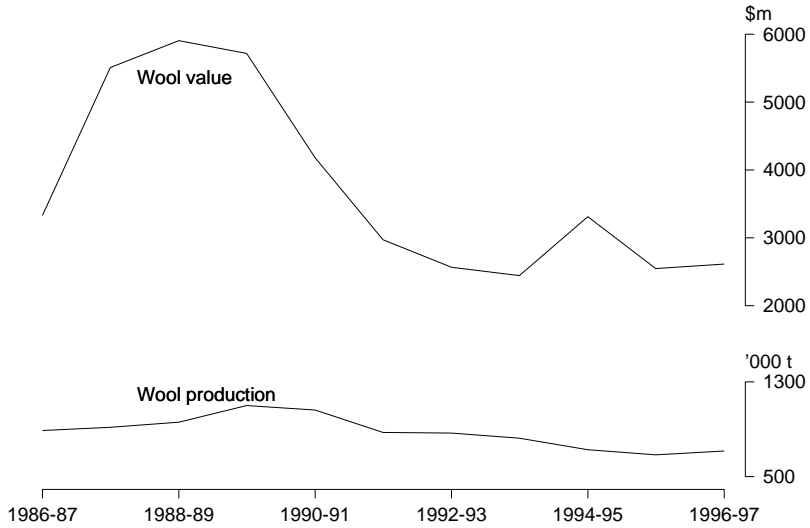
(a) Excludes sheep for breeding.

(b) Obtained by dividing the gross value by the number of sheep exported.

The number of ewes mated during 1996-97 increased marginally to 51.3 million. The number of lambs marked increased by 3.2% to 40.4 million while the proportion of lambs marked to ewes mated was 78.8%, slightly better than the 77.0% recorded in 1995-96 and well up on the 1994-95 figure of 72.2%.

SHEEP *continued*

Wool production increased by 6.8% to 731,400 tonnes. New South Wales remained Australia's largest wool producer, contributing 35.0% (256,200 tonnes) of the country's wool clip. The gross value of wool production increased by 2.8% to \$2,621 million.



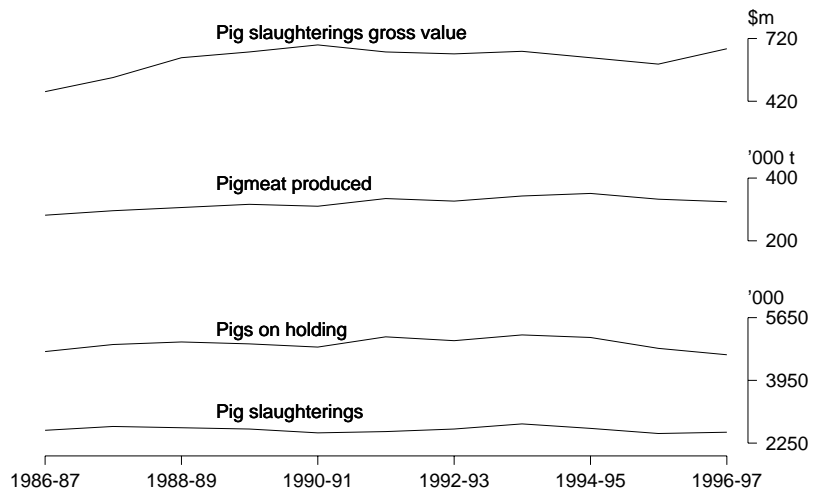
PIGS

Pig numbers remained steady at 2.6 million during 1996–97. Victoria and New South Wales were the only States to record significant increases in the number of pigs, with rises of 5.9% and 2.6% respectively.

While pig numbers were largely unchanged in 1996–97, the number of establishments reporting pigs fell 11.3% to 4,003. Restructuring of the pig industry was evident, with all States recording a decline in the number of establishments reporting pigs. Queensland and Western Australia suffered the biggest loss in numbers of establishments, recording falls of 13.9% and 12.8% respectively.

Pig slaughterings fell by 3.5% to 4.7 million, and pig meat production decreased by 2.4% to 326,000 tonnes.

The gross value of pig slaughterings rose by 12.3% to \$671 million. Most of this increase was in Victoria, where gross value of production increased 19.1% to \$169 million, while New South Wales experienced a 14.2% increase to 214 million.



POULTRY

Total poultry numbers at 31 March 1997 increased by 7.0% to 83.9 million. The total number of chickens on holdings increased 7.5% to 81.4 million, and meat strain chickens increased by 8.1% to 67.4 million. The number of chickens slaughtered increased by 2.7% to 345.6 million, and the production of chicken meat increased by 3.1% to 496,000 tonnes. The gross value of poultry slaughterings rose by 11.1% to \$1,053 million.

Egg production rose by 1.9% to 177.4 million dozen. The gross value of egg production rose by 7.0% to \$275 million.

BEEKEEPING

The number of beekeepers decreased by 12.2% to 1,186 during 1996–97. Despite the fall in the number of beekeepers, the amount of honey produced increased 4.3% to 27,000 tonnes in 1996–97. Average production per hive increased to 71.0 kg in 1996–97, up from 68.2 kg in 1995–96. New South Wales was the biggest contributor to the Australian beekeeping industry, contributing 46.7% of the total honey produced. New South Wales produced 12,620 tonnes of honey, up 6.2% on the 11,884 tonnes reported in 1995–96.

The gross value of honey rose by 17.7% to \$46 million with New South Wales increasing by 18.1% to \$21 million.

Beeswax production decreased by 17.4% to 492 tonnes from the high of 596 tonnes the previous year. The gross value decreased by 15.6% to \$3 million.

LIVESTOCK—Years ended 31 March

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
<i>Livestock</i>	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000
Milk cattle(a)	2 740	2 808	2 958	393	1 784	292	157	122	211	—	—
Meat cattle	22 991	23 569	23 822	6 118	2 627	10 130	1 024	1 787	515	1 609	13
Sheep and lambs	120 862	121 116	120 228	42 388	22 325	10 528	13 106	27 821	3 977	(b)	84
Pigs	2 653	2 526	2 555	729	485	600	417	297	24	2	—
Deer	144	136	152	44	40	20	21	12	17	—	—
Poultry	67 682	78 417	83 942	41 188	17 204	13 097	4 878	6 838	310	230	197
Horses											
Stud	66	80	69	24	16	18	4	5	1	—	—
Other	(b)	(b)	165	61	15	63	6	11	3	6	1
Total	(b)	(b)	234	85	32	81	9	16	4	6	1

(a) Excluding house cows.

(b) Data not collected.

LIVESTOCK SLAUGHTERINGS AND PRODUCTS—Years ended 30 June

	AUST.			1996–97.....							
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Livestock slaughterings(a)(b)											
Cattle ('000)	7 220	6 950	7 300	2 040	1 676	2 518	369	407	204	58	28
Calves ('000)	1 048	985	1 142	257	697	121	16	6	44	1	1
Sheep ('000)	17 500	14 581	14 451	5 241	2 807	977	2 312	2 635	384	—	95
Lambs ('000)	15 289	14 223	14 837	3 621	5 979	785	1 754	2 081	364	—	254
Pigs ('000)	5 120	4 823	4 654	1 338	1 197	1 002	427	550	75	7	4
Chicken ('000)(c)(d)	330 495	336 380	345 554	133 364	86 733	61 089	28 008	36 360	n.p.	n.p.	n.p.
Livestock products(a)											
Meat(e)											
Beef ('000 t)	1 766	1 711	1 778	471	374	688	86	91	52	11	5
Veal ('000 t)	38	34	38	16	14	6	1	—	1	—	—
Mutton ('000 t)	354	310	298	109	56	20	52	52	8	—	2
Lamb ('000 t)	268	265	275	67	111	14	35	36	7	—	5
Pigmeat ('000 t)	351	334	326	89	86	74	30	39	5	n.p.	n.p.
Chicken meat ('000 t) (d)(f)	467	481	496	200	130	80	39	47	n.p.	n.p.	n.p.
Wool											
Shorn wool (incl. crutchings) (t)(g)	r679 435	641 290	685 345	242 357	131 682	47 008	84 434	160 076	19 503	—	284
Other wool (t)(h)	48 511	43 636	46 090	13 802	13 524	2 650	6 360	8 613	1 123	—	18
Total wool produced (t)	r727 946	684 926	731 435	256 159	145 206	49 659	90 794	168 689	20 626	—	302
Whole milk (mill. L)(i)	8 206	8 716	9 024	1 192	5 622	797	535	349	529	n.p.	(j)
Eggs ('000 doz.)	177 288	174 053	177 409	74 870	44 670	22 225	10 706	15 684	4 001	1 933	3 319
Beekeeping											
Honey produced (t)	18 839	25 925	27 044	12 620	4 403	4 190	3 036	1 729	1 012	41	13
Beeswax produced (t)	341	596	492	234	76	68	58	40	14	2	—

(a) Source: *Livestock Products, Australia* (Cat no. 7215.0).

(b) Includes estimates of animals slaughtered on farms and by country butchers.

(c) Comprises broilers, fryers and roasters.

(d) Excludes Tasmania, the Northern Territory and the Australian Capital Territory.

(e) Dressed carcass weight, excluding offal.

(f) Dressed weight of whole birds, pieces and giblets.

(g) Unpublished ABS Data: ABS Brokers and Dealers collection of wool receivals, purchases and sales.

(h) Comprises dead and fellmongered wool and wool exported on skins.

(i) Source: Australian Dairy Corporation.

(j) Australian Capital Territory data is included in New South Wales.

CATTLE, By Type and Number of Establishments—Years ended 31 March

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
CATTLE											
Milk cattle											
Cows in milk and dry ('000)	1 821	1 884	1 977	244	1 229	194	101	71	137	—	—
Other milk cattle ('000)	919	923	982	149	555	98	56	51	73	—	—
<i>Total milk cattle ('000)(a)</i>	<i>2 740</i>	<i>2 808</i>	<i>2 958</i>	<i>393</i>	<i>1 784</i>	<i>292</i>	<i>157</i>	<i>122</i>	<i>211</i>	<i>—</i>	<i>—</i>
Meat cattle											
Intended for service ('000)	555	553	553	124	66	225	27	46	12	53	—
Under one year ('000)	5 806	5 768	6 047	1 783	746	2 236	283	481	160	353	4
Cows and heifers one year and over ('000)	11 213	11 667	11 931	3 040	1 286	4 962	528	928	242	939	7
Other cattle one year and over ('000)	5 418	5 581	5 291	1 171	529	2 706	186	332	101	264	1
<i>Total meat cattle ('000)</i>	<i>22 991</i>	<i>23 569</i>	<i>23 822</i>	<i>6 118</i>	<i>2 627</i>	<i>10 130</i>	<i>1 024</i>	<i>1 787</i>	<i>515</i>	<i>1 609</i>	<i>13</i>
Total cattle and calves ('000)(a)	25 731	26 377	26 780	6 511	4 411	10 422	1 181	1 909	725	1 609	13
Proportion of total herd											
Milk cattle (%)	10.7	10.6	11.0	6.0	40.4	2.8	13.3	6.4	29.0	—	2.3
Meat cattle (%)	89.4	89.4	89.0	94.0	59.6	97.2	86.7	93.6	71.0	100.0	98.5

NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY REPORTING CATTLE

Milk cattle											
Cows in milk and dry	14 227	14 255	14 192	2 072	7 934	2 032	865	462	825	1	1
Other milk cattle	14 035	13 787	14 005	2 054	7 862	1 899	874	462	853	—	1
<i>Total milk cattle(b)</i>	<i>15 445</i>	<i>15 667</i>	<i>15 485</i>	<i>2 313</i>	<i>8 585</i>	<i>2 194</i>	<i>964</i>	<i>483</i>	<i>944</i>	<i>1</i>	<i>1</i>
Meat cattle											
Intended for service	65 170	63 483	62 885	22 282	13 989	15 939	4 132	4 014	2 269	204	56
Under one year	68 758	66 825	65 190	23 224	14 429	16 255	4 421	4 093	2 522	194	52
Cows and heifers one year and over	71 870	71 926	71 766	25 877	15 965	17 612	4 849	4 571	2 619	213	60
Other cattle one year and over	53 406	55 769	54 086	17 957	12 231	15 111	3 305	3 132	2 121	195	34
<i>Total meat cattle</i>	<i>84 042</i>	<i>83 255</i>	<i>81 946</i>	<i>28 492</i>	<i>19 716</i>	<i>19 507</i>	<i>5 588</i>	<i>5 177</i>	<i>3 175</i>	<i>227</i>	<i>64</i>
Total establishments(b)	90 076	89 663	88 792	29 466	23 781	20 441	6 001	5 280	3 532	227	64

(a) Excluding house cows and heifers.

(b) Excludes establishments with house cows and heifers only.

SHEEP, By Type, Lambing and Number of Establishments—Years ended 31 March

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
SHEEP											
Sheep and lambs											
Sheep ('000)	94 030	91 706	89 767	31 195	17 071	8 292	9 566	20 682	2 892	(a)	68
Lambs and hoggets under one year ('000)	26 830	29 410	30 461	11 193	5 253	2 236	3 540	7 139	1 085	(a)	15
Total sheep and lambs ('000)	120 862	121 116	120 228	42 388	22 325	10 528	13 106	27 821	3 977	(a)	84
LAMBING											
Ewes actually mated ('000)(b)	52 528	50 874	51 291	18 238	8 959	3 669	6 180	12 735	1 481	(a)	30
Lambs marked ('000)	37 943	39 187	40 436	14 829	7 569	2 365	5 087	9 248	1 316	(a)	23
Proportion of lambs marked to ewes mated (%)	72.2	77.0	78.8	81.3	84.5	64.4	82.3	72.6	88.9	(a)	76.1
Ewes intended to be mated ('000)(c)	51 900	52 917	53 780	19 204	9 339	4 079	6 465	13 094	1 567	(a)	32
NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY REPORTING SHEEP											
Sheep and lambs											
Sheep	55 167	56 279	54 945	19 260	13 890	2 590	8 603	8 630	1 914	(a)	58
Lambs and hoggets under one year	44 238	45 763	46 227	16 309	11 302	2 022	7 368	7 580	1 596	(a)	50
Total establishments	56 878	57 313	56 083	19 592	14 327	2 618	8 811	8 727	1 949	(a)	59

(a) Data not collected.

(b) Ewes mated to produce lambs marked in the season shown.

(c) Forecast made at the beginning of each season.

PIGS AND ESTABLISHMENTS(a)—Years ended 31 March

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
PIGS											
Pigs											
Boars	(b)	(b)	20	6	4	4	3	3	—	—	—
Breeding sows and gilts	(b)	(b)	303	91	58	68	48	36	3	—	—
Other	(b)	(b)	2 232	633	424	528	366	259	20	2	—
Total	2 653	2 526	2 555	729	485	600	417	297	24	2	—

NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY REPORTING PIGS

	AUST.			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Pigs											
Boars	(b)	(b)	3 203	831	443	646	677	518	83	5	—
Breeding sows and gilts	(b)	(b)	3 547	926	478	734	735	578	91	5	—
Other	(b)	(b)	3 792	966	523	794	785	625	94	5	—
Total establishments	5 140	4 511	4 003	1 032	556	821	821	661	107	5	—

(a) Number of establishments with agricultural activity reporting pigs.

(b) Data not collected.

POULTRY—Years ended 31 March

	AUST.(a).....			1997.....							
	1995	1996	1997	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Chickens											
For egg production ('000)	11 148	13 413	13 772	5 244	3 419	2 639	872	1 269	287	133	197
For meat production ('000)	54 445	62 331	67 373	33 973	13 374	10 432	3 981	5 517	n.p.	97	—
<i>Total chickens ('000)</i>	<i>65 593</i>	<i>75 744</i>	<i>81 432</i>	<i>39 217</i>	<i>16 793</i>	<i>13 070</i>	<i>4 852</i>	<i>6 786</i>	<i>287</i>	<i>230</i>	<i>197</i>
Other poultry ('000)	2 088	2 673	2 510	1 971	411	27	26	52	23	—	—
Total poultry ('000)	67 682	78 417	83 942	41 188	17 204	13 097	4 878	6 838	310	230	197

(a) Excludes some establishments in Tasmania.

BEEKEEPING—Years ended 31 March

	AUST.			1996.....							
	1994	1995	1996	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
Beekeepers (no.)	1 271	1 351	1 186	527	212	218	127	66	30	2	4
Beehives											
Productive ('000)(a)	314	380	381	158	65	72	52	20	12	2	—
Unproductive ('000)	151	109	86	34	13	25	5	6	3	—	—
Total ('000)	465	489	466	192	77	96	57	27	15	2	—
Honey											
Quantity produced (t)	18 839	25 925	27 044	12 620	4 403	4 190	3 036	1 729	1 012	41	13
Average production per productive beehive (kg)	60.0	68.2	71.0	80.0	67.7	58.2	58.4	84.5	85.1	19.2	45.4
Beeswax (t)	341	596	492	234	76	68	58	40	14	2	—

(a) Beehives from which honey is taken.

GROSS VALUE, LIVESTOCK SLAUGHTERINGS AND PRODUCTS—Years ended 30 June

	AUST.			1996–97.....							
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
LIVESTOCK SLAUGHTERINGS AND OTHER DISPOSALS(a)											
Cattle and calves(b)	4 213.5	3 575.9	3 390.1	772.6	662.5	1 232.9	137.6	282.1	75.1	225.9	1.4
Sheep and lambs(c)	836.8	1 035.7	1 038.9	247.5	347.3	53.2	134.5	237.1	18.9	—	0.4
Pigs(d)	630.6	597.8	671.1	214.3	168.6	160.3	54.4	73.5	n.p.	n.p.	—
Poultry(d)	902.0	948.1	1 053.3	(e)467.5	240.7	166.5	89.2	89.4	n.p.	n.p.	(f)
Other(g)	14.2	14.7	13.6	7.9	0.6	0.9	1.0	3.1	n.p.	0.1	—
Total slaughterings and other disposals(h)	6 618.8	6 192.7	6 190.1	1 709.8	1 419.6	1 613.9	416.6	685.1	117.1	226.1	1.9
LIVESTOCK PRODUCTS											
Wool											
Shorn	3 200.7	r2 475.3	2 536.1	962.0	487.8	175.9	270.0	559.5	79.8	—	1.2
Other(i)	118.5	84.5	85.0	27.4	25.1	5.0	10.2	15.0	2.3	—	—
<i>Total wool</i>	<i>3 319.3</i>	<i>r2 559.7</i>	<i>2 621.2</i>	<i>989.4</i>	<i>512.9</i>	<i>180.8</i>	<i>280.2</i>	<i>574.6</i>	<i>82.1</i>	<i>—</i>	<i>1.2</i>
Liquid whole milk used for											
Manufacturing	1 511.2	1 897.8	1 830.2	160.4	1 330.8	107.3	84.0	38.8	108.8	—	—
Human consumption(j)	907.9	950.5	978.7	333.6	206.1	222.2	88.7	103.8	23.8	n.p.	0.5
<i>Total wholemilk production(j)</i>	<i>2 419.1</i>	<i>2 848.3</i>	<i>2 808.9</i>	<i>494.0</i>	<i>1 536.9</i>	<i>329.5</i>	<i>172.7</i>	<i>142.6</i>	<i>132.6</i>	<i>n.p.</i>	<i>0.5</i>
Eggs(j)	230.6	256.9	274.9	123.1	57.8	36.7	14.4	29.3	9.0	n.p.	4.7
Honey	24.6	39.0	45.9	21.5	7.5	7.0	5.2	2.6	2.0	n.p.	—
Beeswax	1.5	3.2	2.7	1.3	0.4	0.4	0.3	0.2	0.1	—	—
Total livestock products(k)	5 995.0	r5 707.3	5 735.6	1 629.3	2 115.5	554.4	472.7	749.3	225.8	n.p.	6.5

(a) Includes net exports of livestock.

(b) Includes dairy cattle slaughtered.

(c) Excludes value of wool on skins.

(d) Excludes pigs and poultry in the Northern Territory and Tasmania.

(e) Includes the Australian Capital Territory.

(f) Included in New South Wales.

(g) Excludes goats in Tasmania.

(h) Excludes the Northern Territory pigs and poultry.

(i) Includes dead and fellmongered wool on skins.

(j) Excludes the Northern Territory.

(k) Excludes milk and eggs in the Northern Territory.

SECTION 8

APPARENT CONSUMPTION OF FOODSTUFFS

MEAT, MEAT PRODUCTS AND POULTRY

The apparent per capita consumption of total meat and meat products increased by 5.9% to 75.9 kg in 1996–97, compared with a fall of 5.6% in 1995–96.

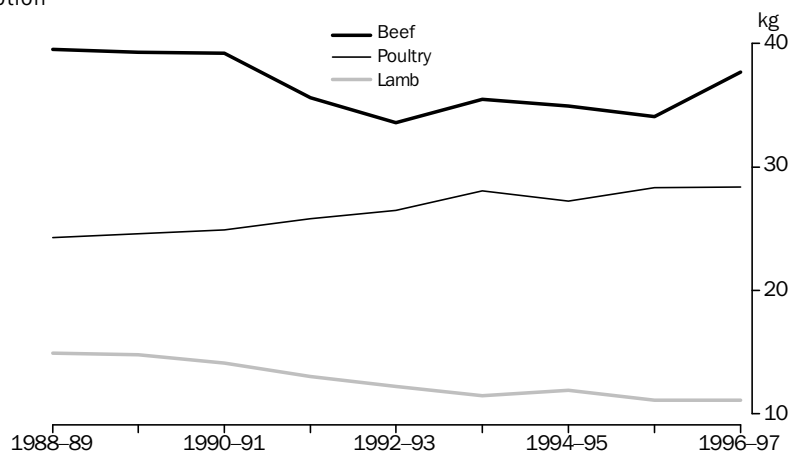
Beef remained the most popular meat consumed, increasing 10.3% in 1996–97, to 37.7 kg per capita. Demand for veal rose 24.5% to 1.8 kg per capita after falling 4.5% in 1995–96. The per capita consumption of lamb remained level at 11.1 kg in 1996–97, after a fall in 1995–96 of 6.4%. The per capita consumption of mutton rose in 1996–97, by 18.8% to 6.5 kg, and follows a fall in 1995–96 of 16.5%.

Consumption of pigmeat showed a fall, with intake in 1996–97 at 17.5 kg per capita, a decrease of 3.0% on the previous year. Despite the declining intake of pigmeat, the per capita consumption of bacon and ham continued to grow in 1996–97 to 8.4 kg.

Offal intake continued the decline of previous years with a record low of 1.4 kg per capita in 1996–97 (down 6.3%). This compares with a sharper fall in 1995–96 of 20.6% to 1.5 kg per capita.

The apparent per capita consumption of poultry rose marginally in 1996–97 to 28.4 kg per capita, after an increase of 3.9% in 1995–96.

Apparent per capita consumption



SEAFOOD

Seafood intake fell by 2.3% in 1996–97 to 10.2 kg per capita when compared with the previous year. The major contributor to the fall was the reduced consumption of Australian fish, at 3.1 kg per capita, a decline of 9.7% when compared with the previous year. This fall was partly offset by increased consumption of imported fish, which rose 12.0% to 2.2 kg per capita. Smaller falls were also recorded for Australian prepared seafood and imported prepared fish products.

DAIRY PRODUCTS

The consumption of dairy products increased by 2.0% to 25.7 kg per capita in 1996–97. The per capita consumption of full cream condensed milk increased from 2.4 kg in 1995–96 to 2.9 kg in 1996–97. This was partially offset by a fall in the consumption of condensed skim milk, down 15.4% to 1.8 kg per capita. Increases were also recorded for powdered full cream milk, at 1.3 kg per capita (up 18.4%), and cheese, at a record high of 10.7 kg per capita (up 2.0%).

FRUIT AND FRUIT PRODUCTS

The consumption of fruit (including fruit for fruit juices) decreased marginally to 122.9 kg per capita in 1996–97, following a similar fall in the previous year. The most significant movement for per capita consumption of fruit was recorded for jams and preserves, which fell 13.3% to 1.8 kg. Consumption of processed fruit also fell, by 3.9% to 7.8 kg per capita. The per capita consumption of citrus and other fresh fruit both remained level, while dried fruit increased by 2.3% to 2.8 kg per capita.

VEGETABLES

Per capita consumption of vegetables fell 3.2% in 1996–97 to 160.9 kg, after the record high of 166.1 kg in 1995–96. Potatoes remained the most popular vegetable, although per capita consumption fell by 2.7% to 68.2 kg. The consumption of other root and bulb vegetables also fell, by 2.2% to 23.8 kg per capita, while tomatoes rose 5.5% in 1996–97 to 25.2 kg per capita. The per capita consumption of leafy and green vegetables fell marginally in 1996–97 to 21.4 kg, while other vegetables fell 15.4% to 22.3 kg; this compares with an increase of 16.1% for 1995–96.

EGGS AND EGG PRODUCTS

Egg consumption remained steady at 132 eggs per capita in 1996–97, compared with the previous year when consumption fell by 2.3%.

GRAIN PRODUCTS

The apparent per capita consumption of grain products rose by 5.7% to 96.9 kg in 1996–97. The major contributor to this increase was flour consumption which rose 5.6% to 81.8 kg per capita, due mainly to increased production. Increases were also recorded for rice at 7.3 kg per capita (up 11.7%), and other breakfast foods from grain, at 7.2 kg per capita (up 2.5%). The only grain product to show a fall was oatmeal and rolled oats, which decreased by 11.0% to 0.7 kg per capita. Bread consumption per capita increased by 3.5% in 1996–97 to 51.2 kg.

NUTS

The per capita consumption of peanuts rose 8.0% to 2.3 kg in 1996–97, compared with a fall of 12.3% in 1995–96. The consumption of tree nuts remained level at 4.5 kg per capita.

OILS AND FATS

In 1996–97, the apparent consumption of fats fell 6.3% to 18.0 kg per capita; this compares with a 1.8% rise in 1995–96. The most significant contributions to this decline in per capita consumption were recorded for table and other margarine, which fell to 4.7 kg (down 13.4%) and 1.9 kg (down 22.6%) respectively. Intake of butter and dairy spreads also fell in 1996–97; butter was down by 5.5% to 2.7 kg per capita and dairy spreads fell 10.4% to 0.7 kg per capita.

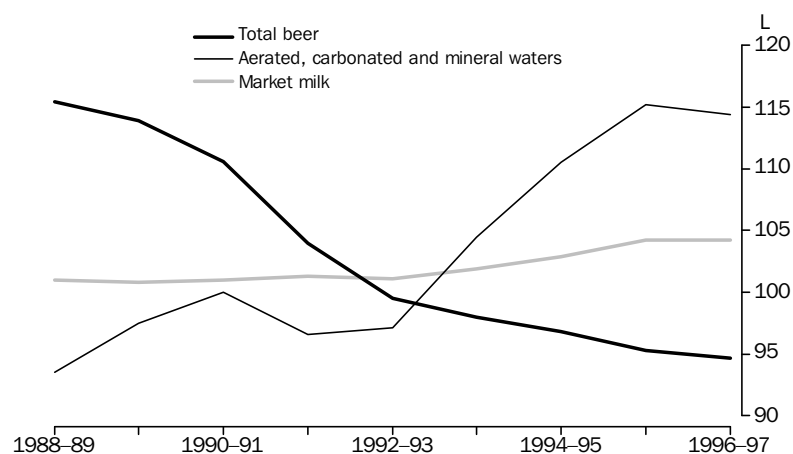
SUGARS

The per capita consumption of sugars increased marginally in 1996–97 to 48.4 kg. Refined cane sugar consumption rose 11.7% to 11.1 kg per capita but sugar consumed in manufactured products fell, by 1.8%, to 31.7 kg per capita. In 1996–97, the per capita consumption of honey fell 7.2% to 0.8 kg.

BEVERAGES

In 1996–97, the per capita consumption of tea fell 7.0% to 0.8 kg, while coffee fell 6.6% to 2.0 kg. Carbonated and aerated waters remained the most popular beverage, despite falling marginally to 114.4 litres per capita.

Apparent per capita consumption



The apparent per capita consumption of low alcohol beer rose 6.7% to 23.9 litres in 1996–97, while the consumption of other beer fell by 2.9% to 70.8 litres per capita. Overall, beer consumption showed a marginal decline, with consumption at 94.7 litres per capita. The consumption of wine rose 4.0% to 19.0 litres per capita in 1996–97.

ALCOHOL CONTENT

The trends in the consumption of beer and wine are reflected in the apparent per capita consumption of alcohol (expressed in terms of alcohol content). The per capita consumption of alcohol consumed as low alcohol beer rose 6.6% to 0.74 litres per capita in 1996–97. However, alcohol consumed as other beer fell in 1996–97 by 2.6%, to 3.38 litres per capita. Alcohol consumed as wine rose 3.0%, to 2.16 litres per capita. The consumption of alcohol as spirits decreased by 5.4% in 1996–97, to 1.28 litres per capita. The total per capita consumption of alcohol fell marginally, to 7.55 litres in 1996–97.

AVAILABLE AND APPARENT CONSUMPTION OF SELECTED FOODSTUFFS—Years ended 30 June

	AVAILABLE FOR CONSUMPTION.....			APPARENT PER CAPITA CONSUMPTION.....		
	1994-95	1995-96	1996-97	1994-95	1995-96	1996-97
	t	t	t	kg	kg	kg
Meat and meat products						
Carcass meat						
Beef	626 921	621 104	6 993 826	34.9	34.1	37.7
Veal	26 421	25 570	32 248	1.5	1.4	1.8
Lamb	212 905	201 895	203 924	11.9	11.1	11.1
Mutton	117 635	99 350	119 691	6.5	5.5	6.5
Pigmeat	346 623	328 799	322 868	19.3	18.1	17.5
Total	1 330 505	1 276 898	1 372 556	74.1	70.2	74.5
Offal and meat n.e.i.	33 984	27 333	25 922	1.9	1.5	1.4
Total meat and meat products	1 364 489	1 304 231	1 398 478	76.0	71.7	75.9
Bacon and ham (cured carcass weight)	134 624	150 047	154 189	7.5	8.2	8.4
Poultry						
Poultry (dressed weight)	489 373	515 268	523 303	27.2	28.3	28.4
Seafood						
Fresh and frozen (edible weight)						
Fish						
Australian	62 565	62 455	57 108	3.5	3.4	3.1
Imported	36 500	35 468	40 238	2.0	1.9	2.2
Crustacea and molluscs	33 730	32 731	32 726	1.9	1.8	1.8
Seafood otherwise prepared (product weight)						
Australian	8 449	7 666	7 405	0.5	0.4	0.4
Imported						
Fish	37 476	36 482	35 038	2.1	2.0	1.9
Crustacea and molluscs	15 556	15 385	15 637	0.9	0.8	0.8
Total seafood	194 276	190 188	188 152	10.8	10.5	10.2
	'000 L	'000 L	'000 L	L	L	L
Dairy products						
Market milk (fluid whole)	1 848 900	1 895 429	1 919 874	102.9	104.2	104.2
	t	t	t	kg	kg	kg
Dairy products						
Condensed, concentrated and evaporated milk						
Full-cream sweetened and unsweetened	51 408	43 334	54 197	2.9	2.4	2.9
Skim	42 553	38 654	33 126	2.4	2.1	1.8
Powdered milk						
Full-cream	16 402	19 977	23 951	0.9	1.1	1.3
Skim	39 424	40 907	43 187	2.2	2.2	2.3
Infants' and invalids' food	21 601	22 574	24 859	1.2	1.2	1.3
Cheese (natural equivalent weight)	184 291	191 564	197 819	10.3	10.5	10.7
Total (converted to milk solids, fat and non-fat)	446 481	458 635	473 923	24.9	25.2	25.7
Fruit and fruit products						
Fresh fruit (incl. fruit for fruit juice)						
Citrus	812 369	809 457	820 756	45.2	44.5	44.5
Other	972 156	995 702	1 007 988	54.1	54.7	54.7
Jams, preserves, etc. (product weight)	35 821	38 678	33 967	2.0	2.1	1.8
Dried fruit (product weight)	52 519	49 136	50 883	2.9	2.7	2.8
Processed fruit (product weight)	133 069	148 063	144 107	7.4	8.1	7.8
Total (fresh fruit equivalent)	2 212 178	2 237 740	2 263 674	123.2	123.0	122.9

AVAILABLE AND APPARENT CONSUMPTION OF SELECTED FOODSTUFFS—Years ended 30 June *continued*

	AVAILABLE FOR CONSUMPTION.....			APPARENT PER CAPITA CONSUMPTION.....		
	1994–95	1995–96	1996–97	1994–95	1995–96	1996–97
	t	t	t	kg	kg	kg
Vegetables						
Potatoes	1 104 999	1 274 815	1 255 919	61.5	70.1	68.2
Other root and bulb vegetables	387 269	442 937	438 663	21.6	24.3	23.8
Tomatoes	373 367	433 913	463 615	20.8	23.8	25.2
Leafy and green vegetables	366 097	391 184	394 407	20.4	21.5	21.4
Other vegetables	408 212	480 220	411 590	22.7	26.4	22.3
Total (fresh equivalent weight)	2 639 944	3 023 068	2 964 193	147.0	166.1	160.9
Grain products						
Flour(a)	1 389 362	1 409 240	1 506 902	77.4	77.5	81.8
Breakfast foods	150 820	140 283	144 283	8.4	7.7	7.8
Table rice	108 510	118 180	133 708	6.0	6.5	7.3
Total grain products	1 648 693	1 668 257	1 784 892	91.8	91.7	96.9
Bread	845 565	899 357	943 081	47.1	49.4	51.2
	'000 doz	'000 doz	'000 doz	no.	no.	no.
Eggs and egg products						
Number of eggs(b)	201 436	199 400	202 239	135	132	132
	t	t	t	kg	kg	kg
Nuts (in shell)						
Peanuts	43 288	38 440	42 044	2.4	2.1	2.3
Tree nuts	79 715	81 618	83 556	4.4	4.5	4.5
Oils and fats						
Butter(c)	55 655	51 886	49 687	3.1	2.9	2.7
Margarine						
Table margarine	95 721	98 704	86 576	5.3	5.4	4.7
Other margarine	35 237	44 614	34 964	2.0	2.5	1.9
<i>Total</i>	<i>130 958</i>	<i>143 318</i>	<i>121 540</i>	<i>7.3</i>	<i>7.9</i>	<i>6.6</i>
Dairy blends (product weight)	12 121	13 808	12 533	0.7	0.8	0.7
Total (fat content)(d)	339 637	350 160	332 271	18.9	19.2	18.0
Sugars						
Cane sugar						
As refined sugar	164 273	181 063	204 769	9.1	10.0	11.1
In manufactured foods	534 551	588 023	584 782	29.8	32.3	31.7
<i>Total</i>	<i>698 824</i>	<i>769 086</i>	<i>789 551</i>	<i>38.9</i>	<i>42.3</i>	<i>42.9</i>
Honey	9 192	16 185	15 217	0.5	0.9	0.8
Total(e)	807 693	872 312	891 688	45.0	47.9	48.4
Beverages						
Tea	16 579	16 090	15 152	0.9	0.9	0.8
Coffee(f)	39 211	39 396	37 251	2.2	2.2	2.0

(a) Includes flour used for breadmaking.

(b) Includes commercial disposals and an estimate for backyard production.

(c) Includes butter equivalent of butter oil, butter concentrate and ghee.

(d) Includes an estimate for vegetable oils and other fats.

(e) Includes sugar content of syrups and glucose.

(f) Coffee and coffee products in terms of roasted coffee.

AVAILABLE AND APPARENT CONSUMPTION OF SELECTED FOODSTUFFS—Years ended 30 June *continued*

	AVAILABLE FOR CONSUMPTION.....			APPARENT PER CAPITA CONSUMPTION.....		
	1994–95	1995–96	1996–97	1994–95	1995–96	1996–97
	'000 L	'000 L	'000 L	L	L	L
Beverages						
Aerated, carbonated and mineral waters(a)	1 985 100	2 095 820	2 107 574	110.5	115.2	114.4
Beer						
Low alcohol	384 062	407 232	439 943	21.4	22.4	23.9
Other beer	1 355 321	1 326 722	1 304 720	75.5	72.9	70.8
<i>Total</i>	<i>1 739 384</i>	<i>1 733 954</i>	<i>1 744 663</i>	<i>96.8</i>	<i>95.3</i>	<i>94.7</i>
Wine	329 929	332 191	349 868	18.4	18.3	19.0
Alcohol content						
Beer						
Low alcohol	11 859	12 597	13 594	0.66	0.69	0.74
Other beer	64 743	63 118	62 253	3.60	3.47	3.38
<i>Total</i>	<i>76 602</i>	<i>75 715</i>	<i>75 847</i>	<i>4.26</i>	<i>4.16</i>	<i>4.12</i>
Wine	37 805	38 122	39 753	2.10	2.10	2.16
Spirits	23 211	24 620	23 594	1.29	1.35	1.28
Total	137 618	138 456	139 194	7.66	7.61	7.55

(a) Includes bulk pre-mix and post-mix concentrates in terms of drink equivalent.

SECTION 9

TRADE

OVERVIEW

The total value of agricultural commodities exported in 1996–97 was \$22,739 million, 28.3% of total merchandise exports. The two major commodity groupings, in terms of value, were cereal grains and cereal preparations, at \$5,954 million, and wool and sheepskins at \$3,744 million.

The value of agricultural commodities exported increased by 6.8% in 1996–97.

CROPS

In 1996–97, total wheat exports stood at 18.2 million tonnes, an increase of 52.0% over the previous year. The value of wheat exported in 1996–97 increased by 27.9% to \$4,301.4 million.

Total barley exports rose by 29.3% in 1996–97 to 3.9 million tonnes; the value of barley exported stood at \$815.0 million, an increase of 14.6%. Rice exports recorded a decrease in both quantity (7.0%) and value (4.3%). The volume of grain sorghum exports fell by 27.2% to 299,100 tonnes, and the value fell by 27.5%. The total quantity of cotton seed exported increased by 34.3% to 211,500 tonnes; the total value of cotton seed exported stood at \$45.1 million, an increase of 8.2%.

FRUIT

In 1996–97, fresh and dried grapes were the principal fruit exports in terms of value. The combined value rose by 47.1% to \$119.0 million while the quantity exported increased 43.6% to 52.0 million tonnes. Oranges were the next largest contributor in terms of value, with \$108.8 million, up 33.5% over 1995–96. There were 116,300 tonnes of oranges exported, an increase of 31.3%, for the same period.

VEGETABLES

Asparagus exports rose by 8.3% to 5.2 million tonnes, though the value of asparagus exports fell by 1.6% to \$30.4 million. The quantity and value of carrots exported increased by 5.1% and 5.6%, respectively, from 1995–96 to 1996–97.

LIVESTOCK

In 1996–97, the total number of cattle and calves exported was 895,300, a 37.8% increase over the previous year. The majority of exports were from the Northern Territory, Western Australia and Queensland, contributing 43.7%, 27.1% and 21.6%, respectively. The value of cattle and calves exported rose to \$445.1 million, an increase of 20.8% over the previous year, despite low world cattle prices.

The number of live sheep exported decreased by 9.9% to 5.3 million; at the same time the value of live sheep exported was \$193.1 million, a decrease of 15.1% from the previous year. Western Australia was the principal State in terms of sheep and lamb exports contributing 71.9% of the number exported and 72.3% of the value of exports.

EXPORTS OF SELECTED AGRICULTURAL COMMODITIES(a)—Years ended 30 June

	AUST.			1996–97.....						
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.	NT
Crops										
Barley										
Production ('000 t)	2 030.1	3 029.6	3 916.3	n.p.	2.4	3.0	n.p.	1.5	—	—
Value (\$'m)	296.4	710.9	815.0	n.p.	0.6	0.6	n.p.	0.3	—	—
Canola										
Production ('000 t)	84.5	347.8	283.4	63.3	141.9	—	19.6	58.6	—	—
Value (\$'m)	37.6	137.9	123.9	26.9	61.5	—	8.8	26.6	—	—
Cotton seed										
Production ('000 t)	131.5	157.4	211.5	122.6	—	88.8	—	—	—	—
Value (\$'m)	34.4	41.7	45.1	25.0	—	20.1	—	—	—	—
Grain Sorghum										
Production ('000 t)	110.6	410.6	299.1	2.9	0.3	295.9	0.1	—	—	—
Value (\$'m)	18.6	97.2	70.5	0.7	0.1	69.7	—	—	—	—
Rice										
Production ('000 t)	504.4	591.9	550.7	544.8	5.8	—	—	0.1	—	—
Value (\$'m)	286.1	326.7	312.8	310.1	2.6	—	—	0.1	—	—
Wheat										
Production ('000 t)	7 856.4	11 998.3	18 238.6	4 677.8	1 956.3	1 896.3	3 053.5	6 654.7	—	—
Value (\$'m)	1 617.8	3 363.3	4 301.4	1 115.0	426.8	466.5	676.8	1 616.3	—	—
Fruit										
Apples										
Production ('000 t)	33.7	28.9	24.8	1.6	3.8	1.5	1.1	3.5	13.4	—
Value (\$'m)	34.9	33.1	27.9	1.8	4.8	2.3	1.8	5.1	12.1	—
Grapes (fresh or dried)										
Production ('000 t)	28.0	36.2	52.0	4.9	44.0	0.5	1.9	0.7	—	—
Value (\$'m)	62.0	80.9	119.0	12.5	97.3	1.4	5.3	2.5	—	—
Pears (excluding Nashi)										
Production ('000 t)	24.2	19.9	23.6	0.5	20.8	0.3	—	2.0	—	—
Value (\$'m)	27.4	24.4	27.6	0.5	24.3	0.4	0.1	2.3	—	—
Oranges										
Production ('000 t)	92.0	88.6	116.3	28.9	31.7	3.9	50.9	0.8	—	—
Value (\$'m)	79.8	81.5	108.8	26.7	31.4	4.2	45.7	0.8	—	—
Vegetables										
Asparagus										
Production ('000 t)	3.3	4.8	5.2	2.2	2.7	0.2	—	—	—	—
Value (\$'m)	23.2	30.9	30.4	13.5	15.5	1.3	—	—	—	—
Broccoli										
Production ('000 t)	8.8	8.2	7.9	1.2	3.5	2.5	0.2	0.3	0.2	—
Value (\$'m)	19.1	17.6	16.1	3.1	6.8	5.0	0.3	0.5	0.4	—
Carrots										
Production ('000 t)	36.8	42.6	44.8	0.4	0.2	1.4	1.2	38.9	2.6	—
Value (\$'m)	28.3	28.7	30.3	0.5	0.2	1.1	0.8	25.9	1.8	—
Cauliflower										
Production ('000 t)	14.8	18.9	19.3	0.2	2.3	0.3	—	16.4	—	—
Value (\$'m)	20.6	24.4	25.2	0.5	3.2	0.4	0.1	21.0	—	—

(a) International merchandise trade statistics are compiled by the Australian Bureau of Statistics from information submitted by exporters and importers or their agents to the Australian Customs Office.

Individual export consignments of less than \$500 are not recorded.

The value of exports is the free on board (f.o.b.) transactions value of the good expressed in Australian dollars. Commodity exports in this table are presented according to the codes and descriptions of the Australian Harmonised Export Commodity Classification (AHECC).

EXPORTS OF SELECTED AGRICULTURAL COMMODITIES(a)—Years ended 30 June *continued*

	AUST.			1996–97.....						
	1994–95	1995–96	1996–97	NSW	Vic.	Qld	SA	WA	Tas.	NT
Livestock(b)										
Live cattle and calves										
Production ('000)	400.1	649.7	895.3	12.6	31.0	193.3	15.9	242.9	8.1	391.4
Value (\$m)	214.4	368.4	445.1	9.8	15.1	103.1	7.8	122.2	4.3	182.8
Live sheep										
Production ('000)	5 699.9	5 879.8	5 299.0	0.8	835.9	—	653.5	3 808.8	—	—
Value (\$m)	185.2	227.4	193.1	0.1	29.7	—	23.7	139.6	—	—

(a) International merchandise trade statistics are compiled by the Australian Bureau of Statistics from information submitted by exporters and importers or their agents to the Australian Customs Office.

Individual export consignments of less than \$500 are not recorded.

The value of exports is the free on board (f.o.b.) transactions value of the good expressed in Australian dollars. Commodity exports in this table are presented according to the codes and descriptions of the Australian Harmonised Export Commodity Classification (AHECC).

(b) Includes exports for breeding.

EXPORTS BY AGRICULTURAL ESTABLISHMENTS

The following table shows the values of exports, of selected industries classified by the Australian and New Zealand Standard Industrial Classification (ANZSIC).

EXPORTS BY INDUSTRY(a)

		1994-95	1995-96	1996-97
ANZSIC code	Description	\$'000	\$'000	\$'000
0111	Plant nurseries	7 216	6 705	5 694
0112	Cut flower and flower seed growing	24 763	28 482	26 024
0113	Vegetable growing	217 154	213 380	201 123
0114	Grape growing	61 962	80 937	119 036
0115	Apple and pear growing	61 855	57 714	57 692
0116	Stone fruit growing	14 526	15 667	20 260
0117	Kiwi fruit growing	1 757	2 003	1 804
0119	Fruit growing n.e.c.	134 509	140 360	190 123
0121	Grain growing	1 719 716	3 644 574	5 380 986
0124	Sheep farming	2 743 819	2 189 472	2 372 103
0125	Beef cattle farming	214 408	368 388	445 059
0141	Poultry farming (meat)	528	1 094	494
0142	Poultry farming (eggs)	3 119	5 490	3 247
0151	Pig farming	1 987	944	1 351
0152	Horse farming	36 016	42 211	37 796
0159	Livestock farming n.e.c.	21 740	27 096	35 473
0161	Sugar cane growing	151	218	164
0169	Crop and plant growing n.e.c.	74 281	81 510	72 019
	<i>Total (ANZSIC Code 01)</i>	<i>5 339 507</i>	<i>6 906 246</i>	<i>8 970 447</i>
02	Services to agriculture; hunting and trapping	724 788	820 241	1 146 567
03	Forestry and logging	35 054	44 636	60 967
04	Commercial fishing	401 880	452 514	577 052
	Total (ANZSIC Division A)	6 501 229	8 223 635	10 755 033

(a) This table contains export statistics classified by Australian and New Zealand Standard Industry Classification (ANZSIC). The statistics are compiled by allocating statistical items of the Australian Harmonised Export Commodity Classification (AHECC) to the ANZSIC industry of origin based on the main economic activities of these industries with which the commodities are associated.

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains detailed statistics on crops, livestock and livestock products and characteristics of farms. Also included is summary information on the financial performance of agricultural industries, the value of agricultural commodities produced (VACP), apparent consumption of foodstuffs and exports of agricultural commodities.

SCOPE AND COVERAGE

2 The statistics on crops (including horticulture), livestock numbers, structure of agricultural industries, land management and farm inputs in this publication are derived from the annual Agricultural Census conducted throughout Australia at 31 March. The 1996–97 Census was the final annual Census. The next Agricultural Census will be conducted in respect to 2001–02.

3 The scope of the 1996–97 Census was establishments with an estimated value of agricultural operations (EVAO) of \$5,000 or more. The scope of the Census for earlier years was set at different levels. The table below indicates the change in scope of the Agricultural Census since 1985–86 based on the EVAO of establishments.

.....

<i>Year</i>	<i>EVAO cut-off level</i>
	<i>\$</i>
.....	
1985–86	2 500
1986–87	20 000
1987–88	20 000
1988–89	20 000
1989–90	20 000
1990–91	20 000
1991–92	22 500
1992–93	22 500
1993–94	5 000
1994–95	5 000
1995–96	5 000
1996–97	5 000

.....

4 In addition to the Census, some basic data has been previously collected via an Activity Collection for a limited range of commodities from those establishments having an EVAO of between \$5,000 and \$22,499. These data can be used together with census data to derive estimates of totals for selected commodities for all establishments having an EVAO greater than \$5,000. Results for 1993–94 to 1996–97 based on \$22,500 EVAO for crops (including fruit and vegetables) are available on request.

STRUCTURE

Agricultural establishments

5 For the Agricultural Census, the concept of an establishment is the same as that used by the Australian Bureau of Statistics (ABS) for all industry statistics collections. The establishment is the smallest accounting unit of business within a State or Territory, controlling its productive activities and maintaining a specified range of detailed data including data enabling value added to be calculated. In general an establishment covers all operations at a physical location, but may consist of a group of locations provided they are within the same State or Territory. The majority of establishments operate at one location only.

Industry and size classification

6 Since 1991–92, units in the Agricultural Census have been classified according to the methodology described in *Australian and New Zealand Standard Industrial Classification (ANZSIC)* (Cat. no. 1292.0). Prior to 1991–92, establishments were classified according to the methodology described in the 1983 edition of the *Australian Standard Industrial Classification (ASIC), Volume 1 — The Classification* (Cat. no. 1201.0). Therefore, care should be taken when making comparisons between years where different classifications have been used.

7 The process of determining the industry class for ANZSIC is the step-by-step method of classification described in Chapter 4 of the *Australian Standard Industrial Classification (ASIC), Volume 1 — The Classification* (Cat. no. 1201.0). This method requires that the Division code of the unit be determined first. The Subdivision code within the major Division of the unit is then determined, followed by the Group code and finally the Class code of the unit. Certain departures from this basic method are outlined in the description of individual classes within Subdivision 01: Agriculture.

8 The Group and Class codes of agricultural units are determined annually by valuing physical crop and livestock information collected in the Agricultural Census. The valuation procedure allows for the industry classification of individual units to be changed to reflect significant or long-term changes in their activities.

9 However, the procedure provides for a dampening or resistance effect to offset instability in allocation to particular classes of the classification which would arise from short-term factors such as floods and drought. To obviate such effects, the valuation procedure takes into account (without double counting) the area of crops sown and numbers of livestock on holdings at a point in time, as well as the crops produced and livestock turnoff during the year. The resultant aggregation of these commodity values is termed the EVAO. It should be noted that EVAO is applicable *only* for industry coding and size determination purposes. It is not an indicator of receipts obtained by units or of the value of agricultural commodities produced by these units.

DEFINITIONS

10 Following are definitions of terms used in the tables of this publication:

- *Agricultural establishment* is an establishment which is engaged *mainly* in agricultural activities.
- *Establishment with agricultural activity* is an establishment which is engaged in agricultural activity, regardless of the unit's predominant activity.
- *Gross domestic product*, which is commonly referred to as GDP, is formally defined as 'the total market value of goods and services produced in Australia after deducting the cost of goods and services used up (intermediate consumption) in the process of production, but before deducting allowances for the consumption of fixed capital (depreciation)'.

AGRICULTURAL FINANCE SURVEY

11 Estimates of financial performance in this publication have been derived from the 1996–97 Agricultural Finance Survey (AFS). The survey provides annual financial statistics on a consistent basis across all agricultural industries in each State and Australia.

12 More detailed information is published in *Agricultural Industries, Financial Statistics, Australia* (Cat. no. 7507.0).

Scope and content

13 The population of the AFS consists of all economic units (management units), the principal activity of which resulted in them being classified within Subdivision 01: Agriculture of ANZSIC, and which had an EVAO of \$22,500 or more.

MANAGEMENT UNITS/FARM BUSINESSES

14 The management unit is the highest level accounting unit within a business, having regard for industry homogeneity, for which accounts are maintained; in nearly all cases it coincides with the legal entity owning the business. Management units which have a predominant activity in the agricultural sector are called farm businesses.

15 The 1996–97 AFS consisted of approximately 2,500 farm businesses, selected at random from all in-scope farm businesses on the ABS business register.

16 The financial details collected in the AFS relate to the agricultural and (where applicable) non-agricultural business activities of the selected farm businesses. Any management unit which was predominantly engaged in non-agricultural activity was regarded as out of scope of the AFS even though it may have had one or more establishments engaged in agriculture.

RELIABILITY OF ESTIMATES

17 The estimates are based on information obtained from a sample drawn from the total farm business population, and are subject to sampling variability; that is, they may differ from the figures that would have been produced if all farm businesses had been included in the AFS. One measure of the likely difference is given by the standard error, which indicates the extent of which an estimate might have varied by chance because only a sample of farm businesses was included. For more information, refer to *Agricultural Industries, Financial Statistics, Australia* (Cat. no. 7507.0).

CROPS, PASTURES AND HORTICULTURE

18 Statistics of area and production of crops relate, in the main, to crops sown during the year ended 31 March. Statistics of perennial crops relate to the position as at 31 March and the production during the year ended on that date, or of fruit set by that date. For example, particulars of area, production and yield per hectare of wheat in Australia refer to wheat sown during the period from April to September and harvested between October and the following February, i.e. the 1996–97 season relates to the harvesting period October 1996 to February 1997. Statistics of other crops which in some States are harvested after 31 March 1997 (e.g. maize, potatoes, apples and pears) are collected by supplementary census returns and are included in this publication.

LIVESTOCK SLAUGHTERING AND LIVESTOCK PRODUCTS

19 The statistics on livestock slaughtering and meat production are based on a monthly collection from abattoirs and other major slaughtering establishments and include estimates of animals slaughtered on farms and by country butchers and other small slaughtering establishments. Care should be taken when using this information as the figures only relate to slaughtering for human consumption and do not include animals condemned or those killed for boiling down. Definitions of livestock categories may differ between States and within States, particularly with regard to calves.

WOOL

20 Wool production statistics contained in this publication are derived from the monthly ABS Wool Brokers and Dealers Receipts Collection.

21 Wool receipts statistics show the amount of taxable wool received by brokers and dealers from wool producers. It excludes wool received by brokers on which wool tax has already been paid by other dealers (private buyers) or brokers. The information shown is on the basis of the State in which the wool has actually been produced and is different to the receipts of wool by State data that is published monthly in *Livestock Products, Australia* (Cat. no. 7215.0).

MILK

22 Milk statistics have been collected and provided to the ABS by the Australian Dairy Corporation.

POULTRY

23 Poultry slaughtering statistics have been compiled from returns supplied by commercial poultry slaughtering establishments. Producers in Tasmania, the Northern Territory and the Australian Capital Territory are not included in the aggregates derived from the collection. However, the statistics represent a high level of coverage.

BEEKEEPING

24 Beekeepers were included in the scope of the 1996–97 Agricultural Census if they had an EVAO (whether from beekeeping alone or in conjunction with other agricultural activities) of \$5,000 or more. In 1991–92 and 1992–93 only those beekeepers with an EVAO of \$22,500 or more were included in the scope of the Agricultural Census.

VALUE OF AGRICULTURAL COMMODITIES PRODUCED

25 This publication contains summary information on the VACP compiled annually for all States and Australia. They include gross values of production for selected agricultural commodities. More detailed information is available in *Value of Agricultural Commodities Produced, Australia* (Cat. no. 7503.0).

26 Gross value of commodities produced is defined as the value placed on recorded production at the wholesale prices realised in the market place.

Scope and coverage

27 The statistics are derived by multiplying quantity data by price (or unit value) data. The quantity data are collected in Agricultural censuses and other ABS collections with some information from external sources. Most price information is obtained from non-ABS sources.

Information sources

28 For quantity data, production of crops relates, in the main, to crops sown during the year ended 31 March. Statistics of perennial crops relate to the position as at 31 March and production during the year ended on that date. Information covering such commodities as livestock slaughtering, dairy produce and beekeeping is obtained from separate collections and from organisations such as the Australian Dairy Corporation.

Price and marketing costs data

29 The method of collection of relevant prices for, and the costs of marketing of, agricultural commodities varies considerably between States and between commodities. Where a statutory authority handles marketing of the whole or portion of a product (e.g. Australian Wheat Board, Australian Barley Board) data are usually obtained from this source. Information is also obtained from marketing reports, wholesalers, brokers and auctioneers. For all commodities, values are in respect of production during the year (or season) irrespective of whether or when payments are made. For that portion of production not marketed (e.g. hay grown on farm for own use, milk used in farm household, etc.) estimates are made from the best available information and, in general, are valued on a local value basis.

PUBLICATION STRATEGY

30 The aim of the Agriculture Program is to disseminate statistics to the user community in a timely and appropriate form. The strategy for the release of agricultural commodity data will change as a consequence of the cessation of the conduct of annual agricultural censuses. From 1997–98, the initial Agricultural Commodity Survey (ACS), preliminary estimates will be released at the end of August with final results available approximately twelve months after the reference period. There is no pre-release of data ahead of the August preliminary publication.

31 Separate State publications will no longer be produced.

32 The derived series, VACP, is produced annually, using data from the ACS, the quarterly livestock collections and a range of other sources. Preliminary results are released in July each year, with final results by May of the following year.

33 For the annual AFS, preliminary results are released by early February each year, with final results by the following August.

PUBLICATION STRATEGY *continued*

34 The quarterly livestock products series are published within five weeks of the end of the reference period. Preliminary results of Apparent Consumption of Foodstuffs are released in November each year, while final estimates are released within two years.

35 The ABS package, AgStats, offers a wider range of census and VACP data aggregated to Statistical Local Area. This package has been developed for the first time in 1996–97 using the Integrated Regional Database (IRDB) as the software platform, and is available on CD-ROM only. For the years in which commodity data are collected via sample survey, estimates will be available as a component of the annual IRDB release. AgStats will be produced in Census years only. Livestock products data are available via PCAusstats.

36 Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

UNPUBLISHED STATISTICS

37 Unpublished statistics and customised output are available as a special data service and can be obtained by contacting Nigel Gibson on Hobart 03 6222 5939 or Information Services in any ABS office.

GENERAL ACKNOWLEDGMENT

38 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

39 A range of agricultural publications is produced by the ABS, including:

Agricultural Industries, Financial Statistics, Australia (Cat. no. 7507.0)

Agricultural Industries, Financial Statistics, Australia, Preliminary Estimates
(Cat. no. 7506.0)

Agriculture, New South Wales (Cat. no. 7113.1)

Agriculture, Queensland (Cat. no. 7113.3)

Agriculture, South Australia (Cat. no. 7113.4)

Agriculture, Tasmania (Cat. no. 7114.6)

Agriculture, Victoria (Cat. no. 7113.2)

Agriculture, Western Australia (Cat. no. 7113.5)

Agriculture and Fishing, Northern Territory (Cat. no. 7113.7)

Apparent Consumption of Foodstuffs, Australia (Cat. no. 4306.0)

Apparent Consumption of Selected Foodstuffs, Australia, Preliminary
(Cat. no. 4315.0)

Livestock Products, Australia (Cat. no. 7215.0)

Principal Agricultural Commodities, Australia, Preliminary (Cat. no. 7111.0)

RELATED PUBLICATIONS *continued*

Value of Agricultural Commodities Produced, Australia (Cat. no. 7503.0)

*Value of Principal Agricultural Commodities Produced, Australia,
Preliminary* (Cat. no. 7501.0)

40 For comparisons of the agriculture industry with other industries, users are referred to:

Australian National Accounts: National Income, Expenditure and Product
(Cat. no. 5206.0)

Business Operations and Industry Performance, Australia (Cat. no. 8140.0)

GLOSSARY

Agricultural establishment	An establishment which is engaged <i>mainly</i> in agricultural activities.
Gross domestic product (GDP)	Defined as 'the total market value of goods and services produced in Australia after deducting the cost of goods and services used up (intermediate consumption) in the process of production, but before deducting allowances for the consumption of fixed capital (depreciation)'.
Gross farm product (GFP)	Defined as 'the part of gross domestic product arising from production in agriculture and services to agriculture and is equal to the estimated gross value of production (after stock valuation adjustment) less estimated production costs other than wages paid and consumption of fixed capital for all enterprises engaged in agriculture and services to agriculture'.
Turnover	Includes all proceeds received during the year from the sale of crops, livestock, livestock products and other miscellaneous revenue. Proceeds are the gross receipts obtained by farm businesses prior to deductions by agents or marketing boards. They are those receipts obtained during the financial year and do not necessarily relate to the production of that year. For example, receipts from wheat could include the first advance payment on that current season's crop and pool payments received during the year for previous crops.
Value of Agricultural Commodities Produced (VACP)	Defined as the value placed on recorded production at the wholesale prices realised in the market place.

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