



1996-97

7113.5

AGRICULTURE

WESTERN
AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) MON 24 AUG 1998

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- For further information about these and related statistics, contact Pam Prince on Perth (08) 9360 5207, or any ABS office shown on the back cover of this publication.

NOTES

SYMBOLS AND OTHER USAGES

EVAO	estimated value of agricultural operations
ha	hectares
kg	kilograms
km	kilometres
\$m	million dollars
n.c.	not collected
n.e.c.	not elsewhere classified
no.	number
n.p.	not published
p	preliminary
r	figure or series revised since previous issue
SE%	percentage standard error
t	tonnes
t/ha	tonnes per hectare
*	SE% greater than 100. Estimate included for completeness Sampling variability too high for most practical purposes
**	Where an estimate is small compared to previous years, the relative standard error may be a misleading indicator of the reliability of the estimate
—	nil or rounded to zero
..	not applicable

INQUIRIES

For further information about statistics in this publication and the availability of related unpublished statistics, contact Pam Prince on Perth (08) 9360 5207 or any ABS State office.

For information about other ABS statistics and services, please refer to the back of this publication.

Colin Nagle
Regional Director, Western Australia

SUMMARY OF FINDINGS

INTRODUCTION

Data from the 1996–97 Agricultural Census shows mixed trends in Western Australia. The total area of agricultural holdings has decreased, and while crops and pasture production have decreased overall, some cereal crops have increased quite markedly. Some fruit crops such as pears and nashis also recorded increased production while other crops decreased. Livestock numbers have generally fallen, particularly sheep and lambs, and pigs.

STRUCTURE OF AGRICULTURAL INDUSTRY

From 31 March 1996 to 31 March 1997 the number of establishments with agricultural activity decreased marginally. The total at 31 March 1997 (13,872) included 227 establishments classified to ANZSIC other than Subdivision 01 Agriculture, and 92 establishments not classified to any industry (see table 1).

The main industries of the agricultural establishments were:

	<i>Number</i>	<i>% of establishments with agricultural activity</i>
Grain-sheep/beef cattle farming	4 056	29.2
Grain growing	2 593	18.7
Beef cattle farming	1 873	13.5
Sheep farming	1 602	11.5

From 31 March 1996 to 31 March 1997 there was an increase in the number of establishments classified to grain-sheep/beef cattle farming from 3,688 to 4,056. In most other classifications however the number of establishments declined, although the number growing grapes increased by 9.7% (see table 1).

At 31 March 1997, 20.6% of establishments with agricultural activity had an estimated value of agricultural operations (EVAO) of \$500,000 or more, up from 16.8% in 1996. Grain growing was the dominant activity, accounting for 50.3% of establishments with an EVAO of \$500,000 or more. A further 28.7% of establishments with agricultural activity had an EVAO between \$200,000 and \$499,999 of which almost half (48.9%) were establishments in the grain-sheep/beef cattle industry (see table 5).

Just over half (53.6%) of all establishments with agricultural activity had holdings of less than 1,000 hectares; 80.2% of establishments had holdings of under 2,500 hectares, while just 2.4% of establishments had an area of 100,000 hectares or more (see table 6).

At 31 March 1997, establishments with agricultural activity occupied 112.5 million hectares or 44.3% of Western Australia's total area. The area of cereal crops was 5.6 million hectares (5.0% of the total area of establishments with agricultural activity). This was an increase of 8.3% on the 1996 figure of 5.2 million hectares which was, in turn, an 8.4% increase on the 1995 total of 4.8 million hectares (see table 7).

LAND MANAGEMENT

A total of 16.9 million tree seedlings were planted on agricultural holdings in Western Australia during the year ended 31 March 1997, of which 5.5 million were for timber and pulp. Just over 22,000 tonnes of timber were harvested in the year, of which 78.9% was hardwood (see table 8).

CROPS AND PASTURES

Wheat and barley are the principal crops grown in Western Australia, with both area planted and production increasing in 1996–97 compared with 1995–96.

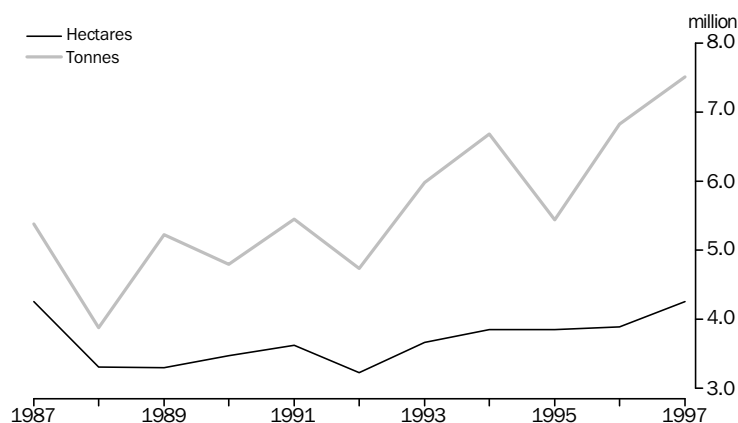
WHEAT

The area sown to wheat for grain increased by 9.5% to 4,263,700 hectares compared with 3,892,400 hectares in 1995–96.

Production during the same period increased by 10.1% to 7,516,000 tonnes, and the average yield remained steady at 1.8 tonnes per hectare. Wheat production was recorded in all Statistical Divisions (SDs) except Perth, Pilbara and Kimberley. The major contributor to production was the Midlands SD which accounted for 48.6% of the State's production and 49.2% of the State's area (see table 11).

The number of establishments growing wheat increased from 5,717 in 1995–96 to 5,904 in 1996–97, an increase of 3.3% (see table 17). During 1996–97, 1,433 (24.3%) establishments grew wheat crops of 1,000 ha or more and accounted for 58.1% of wheat produced. The median wheat crop area was 491 ha.

WHEAT, YEARS ENDED 31 MARCH



SUMMARY OF FINDINGS *continued*

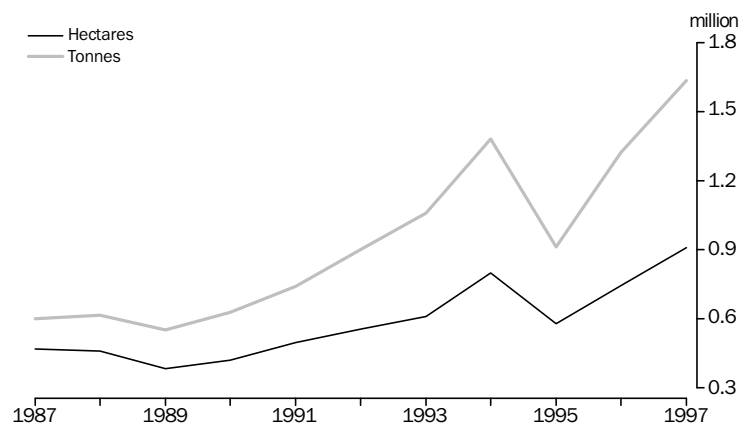
BARLEY

The area sown to barley increased from 744,500 hectares in 1995–96 to 909,300 hectares in 1996–97, a rise of 22.1%. The number of establishments growing barley also increased, from 4,114 in 1995–96 to 4,468 in 1996–97, a rise of 8.6%. Production of barley increased by 23.6% during 1996–97 to a record 1,635,300 tonnes, while the average yield remained steady at 1.8 tonnes per hectare (see tables 11 and 17).

The SDs of Lower Great Southern and South Eastern accounted for 56.8% of all barley produced in Western Australia (see table 11).

The median barley crop area was 134 ha.

BARLEY, YEARS ENDED 31 MARCH



TRITICALE

The area of triticale sown, as well as production, significantly increased for the second year in a row. Whilst production reached a ten-year high in 1996–97 of 35,300 tonnes, the area planted of 25,900 hectares was just below that sown in 1989 (see table 11).

TRITICALE, YEARS ENDED 31 MARCH

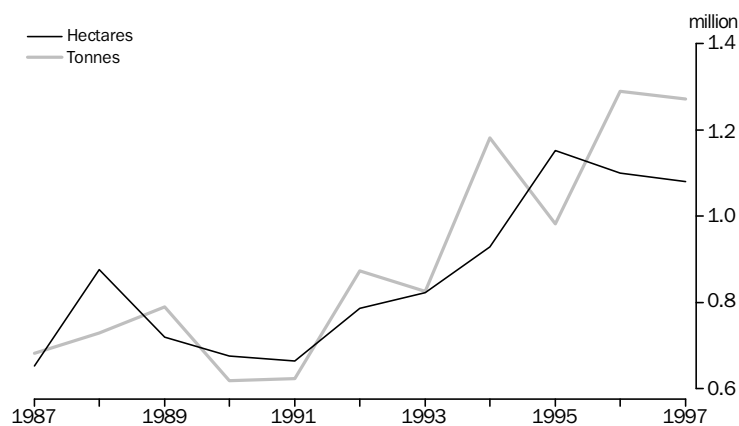


SUMMARY OF FINDINGS *continued*

LUPINS

Following record production in 1995–96, the area sown and production of lupins decreased slightly in 1996–97 to 1,080,400 hectares and 1,271,700 tonnes. The Midlands SD was again the largest producing area of lupins in Western Australia, with 539,500 tonnes produced from 484,600 hectares sown (see table 13).

LUPINS, YEARS ENDED 31 MARCH



CANOLA

In 1996–97 canola fell slightly in production to 107,900 tonnes, but increased slightly in area sown to 106,500 hectares. The average yield was down from 1.2 tonnes per hectare in 1995–96 to 1.0 tonne per hectare in 1996–97 (see table 15).

CANOLA, YEARS ENDED 31 MARCH

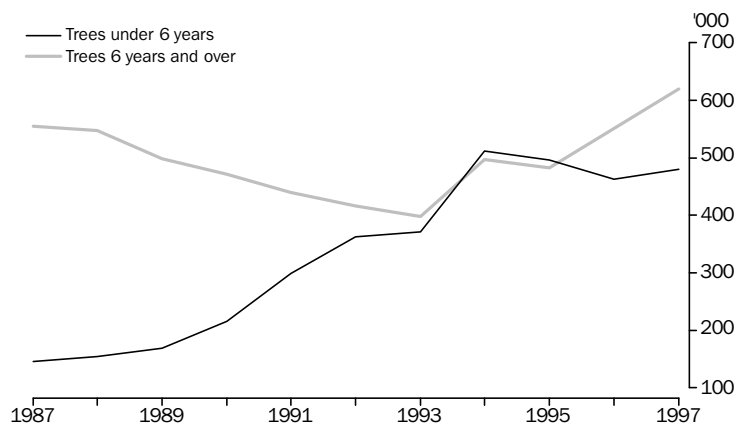


HORTICULTURE

APPLES

The number of apple trees rose by 8.6% to 1,099,700 at 31 March 1997, showing increased plantings during the year. Production remained virtually the same at 38,218 tonnes. The average yield fell to 61.7 kg per tree from a high of 69.4 kg per tree the previous year. The major apple growing area in Western Australia was the South West SD which accounted for 79.5% of the State's production (see table 19).

APPLES, TREE NUMBERS, AT 31 MARCH



APPLES, PRODUCTION, YEARS ENDED 31 MARCH

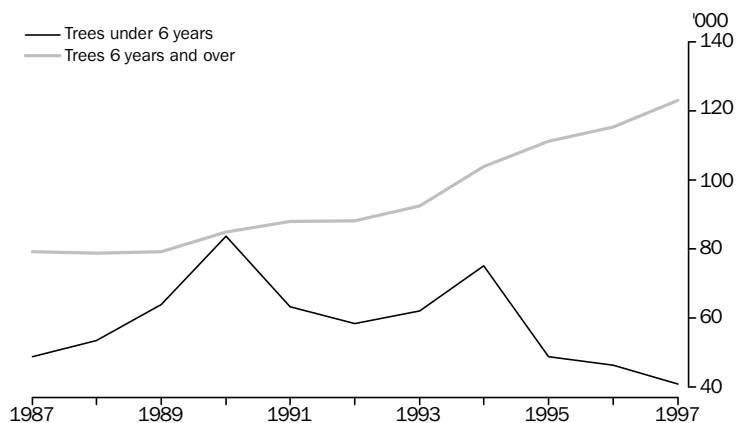


SUMMARY OF FINDINGS *continued*

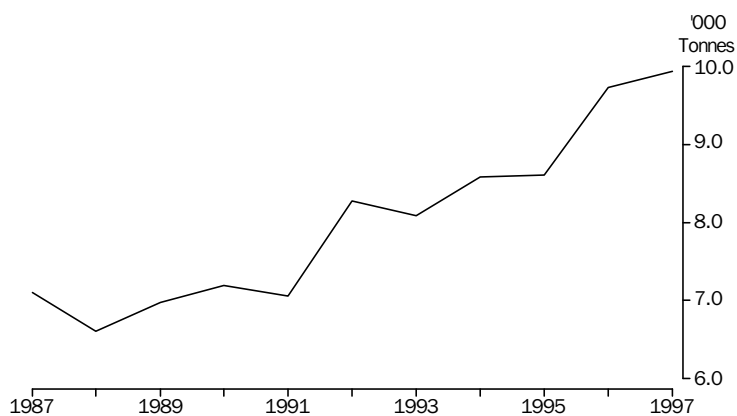
PEARS

There were 164,100 pear trees (excluding nashi) in Western Australia at 31 March 1997, a small increase on the previous year. Production rose by 2.1%, from 9,727 tonnes in 1995–96 to 9,932 tonnes in 1996–97 (see table 19).

PEARS (EXCLUDING NASHI), TREE NUMBERS, AT 31 MARCH



PEARS (EXCLUDING NASHI), PRODUCTION, YEARS ENDED 31 MARCH



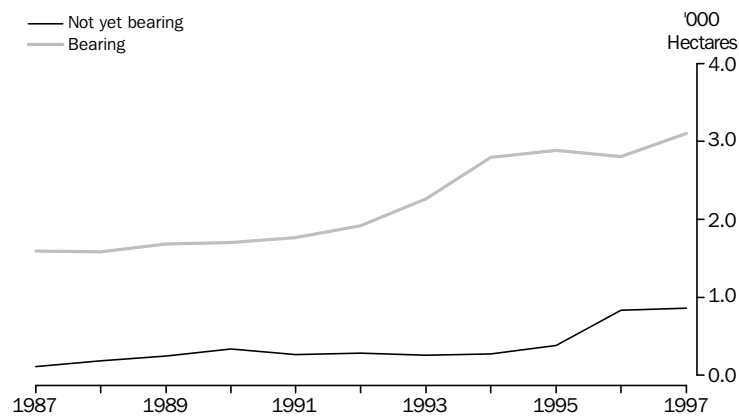
SUMMARY OF FINDINGS *continued*

VITICULTURE

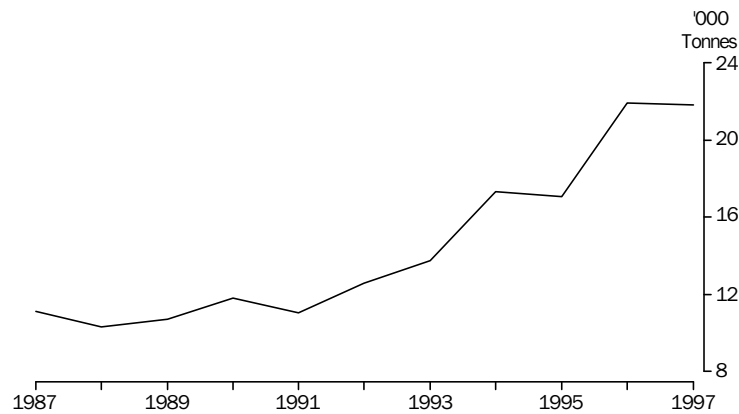
The total area of bearing vines at harvest in 1996–97 increased to 3,106 hectares, a rise of 10.8% from the previous year. The area of new plantings increased by 12.2%, from 385.5 hectares in 1995–96 to 432.4 hectares in 1996–97.

Production of wine grapes increased marginally to 17,295 tonnes while grapes for drying fell 16.8% to 1,164 tonnes. The major wine grape growing area was the South West SD with 48.7% of total wine grape production (see table 24).

GRAPES, AREA PLANTED, YEARS ENDED 31 MARCH



GRAPES, PRODUCTION, YEARS ENDED 31 MARCH



SUMMARY OF FINDINGS *continued*

POTATOES

The total area planted to potatoes in 1996–97 was 3,022 hectares, an increase of 6.6% over the 1995–96 area. Production decreased by 4.6% to 116,004 tonnes as a result of the lower yield, which was down from 42.9 tonnes per hectare to 38.4 tonnes per hectare. The main potato growing area in Western Australia was the South West SD which produced 103,829 tonnes of potatoes (89.5% of the state total) from 2,667 hectares sown (see tables 25 and 26).

POTATOES, AREA PLANTED, YEARS ENDED 31 MARCH



POTATOES, PRODUCTION, YEARS ENDED 31 MARCH



CUT FLOWERS AND CULTIVATED TURF

The total area of cut flowers grown during 1996–97 was 1,094 hectares, 9.2% less than in 1995–96.

In 1996–97, cultivated turf area was 207 hectares, an increase of 19 hectares (10.3%) from 1995–96. This follows an increase of 39 hectares between 1994–95 and 1995–96 (see table 28).

LIVESTOCK AND LIVESTOCK PRODUCTS

MEAT CATTLE

There were 1,786,800 meat cattle in Western Australia at 31 March 1997, a slight drop (0.9%) from the 1,802,800 reported at 31 March 1996. There was a slight rise in the number of establishments reporting meat cattle, from 5,115 to 5,177.

At 31 March 1997, just 11.3% of establishments with meat cattle had a herd size of 500 and over. These establishments accounted for 67.6% of the total number of meat cattle. Just over a quarter of establishments with meat cattle had a herd size of under 50, and these accounted for only 1.8% of the total herd. The median meat cattle herd size at 31 March 1997 was 112 (see tables 29, 30, 31).

MEAT CATTLE, AT 31 MARCH



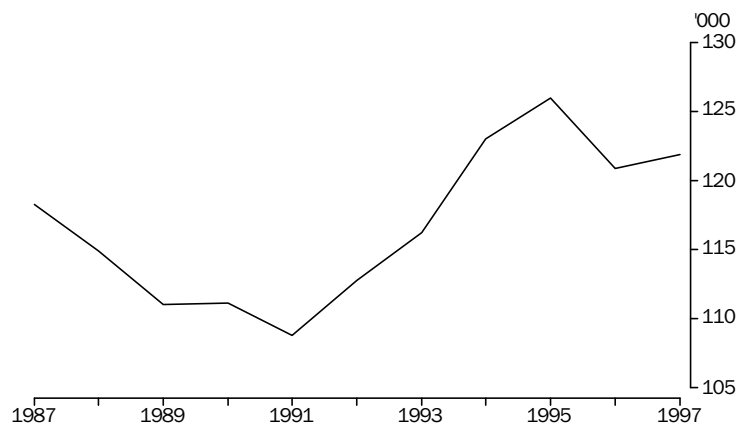
SUMMARY OF FINDINGS *continued*

MILK CATTLE

The milk cattle herd at 31 March 1997 was 121,900, a rise of only 0.8% from the 1996 figure of 120,900. The South West SD was the major dairy region with 89.7% of the State's milk cattle herd.

The number of establishments with milk cattle fell by 6.6% to 483 following an 11.2% fall during the previous year. Over half (57.8%) of all establishments with milk cattle had a herd size of 200 and over, accounting for 79.9% of all milk cattle. The median milk cattle herd size was 228 (see tables 32, 33, 34).

MILK CATTLE, AT 31 MARCH



SUMMARY OF FINDINGS *continued*

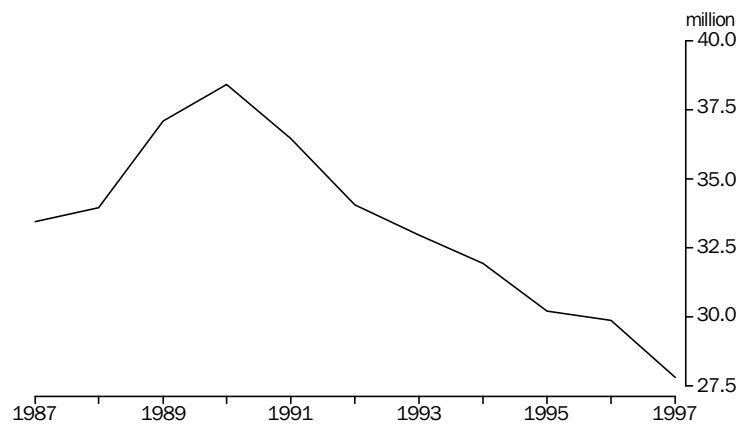
SHEEP AND LAMBS

There were 27.8 million sheep at 31 March 1997, a decrease of 6.7% from the 29.8 million at 31 March 1996.

The number of establishments reporting sheep and lambs was also down, by 2.3% to 8,727. The majority of establishments ran small flocks, with 62.0% of establishments having a flock size of less than 3,000 sheep. Conversely only 17.4% had flocks of 5,000 head or more. The median flock size was 2,328.

The number of lambs marked fell by 5.6% to 9.2 million (see tables 35, 36, 37, and 38).

SHEEP AND LAMBS, AT 31 MARCH



SUMMARY OF FINDINGS *continued*

PIGS

The number of pigs at 31 March 1997 was 297,400, a decrease of 5.2% from 31 March 1996. The number of establishments reporting pigs at 31 March 1997 was also down, by 12.8% to 661. Of these establishments, 57 (8.6%) had herd sizes of 1,000 or more, accounting for 70.2% of the State's herd (see tables 39 and 40).

PIGS, AT 31 MARCH



VALUE OF AGRICULTURAL COMMODITIES PRODUCED

At the time of publication, preliminary figures only were available for the gross value of agricultural commodities produced in 1996–97.

As in the previous season, wheat for grain, with production valued at \$1,621.1m, continued to be the leading broadacre crop in terms of value of production. The next major crop in terms of gross value was barley with \$299.6m (see table 16).

In relation to fruit, apples and grapes were the largest contributors to gross value of production at \$41.3m and \$29.2m respectively. In the case of apples, this was an increase of 13.8% on the previous year while the value of grape production increased by 20.7% on 1996 (see table 23).

Potatoes and carrots were the largest contributors to the gross value of production of vegetables at \$38.0m and \$32.1m respectively. Cauliflowers, at \$19.9m, were also a major contributor. The largest increase was for rockmelons, from \$8.2m to \$13.5m, while the value of onions fell 44.7% to \$8.9m (see table 27).

There was little change from 1996 in the gross values of livestock products. The value of wool fell by 6.8% to \$574.6m while the gross value of slaughterings was constant. The value of milk production increased by 12.1% to \$142.6m (see table 46).

SELECTED FINANCIAL STATISTICS

Turnover of farm businesses in Western Australia decreased by 5.3% from \$4,394.3m in 1995–96 to \$4,160.3m in 1996–97. The average turnover per farm business was \$380,900 in 1996–97 compared to \$404,100 in 1995–96, a drop of 5.7%.

Total farm debt for Western Australian farm businesses decreased from \$3,485.7m in 1995–96 to \$2,886.3m in 1996–97. This was an average debt per farm business of \$264,300 at 30 June 1997 compared with \$320,600 at the same time in 1996, a decrease of 17.6%.

Interest paid by all farm businesses decreased slightly from \$237.4m in 1995–96 to \$230.4m in 1996–97. The average interest bill also dropped marginally, from \$21,800 to \$21,100.

The aggregate cash operating surplus for 1996–97 was \$1,013.9m, down by 20.6% on the figure of \$1,276.5m for 1995–96. The average cash operating surplus for each farm business also dropped in 1996–97, by 21.0% to \$92,800 (see tables 48 and 49).

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1

ESTABLISHMENTS BY INDUSTRY, EVAO \$5,000 and over, at 31 March(a)

Industry class		1995	1996	1997
ANZSIC code	Industry of establishment	no.	no.	no.
0111	Plant nurseries	140	156	147
0112	Cut flower and flower seed growing	122	130	147
0113	Vegetable growing	564	567	549
0114	Grape growing	233	268	294
0115	Apple and pear growing	207	224	218
0116	Stone fruit growing	173	164	184
0117	Kiwi fruit growing	7	9	4
0119	Fruit growing n.e.c.	294	299	309
0121	Grain growing	2 276	2 729	2 593
0122	Grain-sheep/beef cattle farming	4 055	3 688	4 056
0123	Sheep-beef cattle farming	630	628	568
0124	Sheep farming	1 928	1 759	1 602
0125	Beef cattle farming	1 890	1 898	1 873
0130	Dairy cattle farming	516	463	460
0141	Poultry farming (meat)	59	57	55
0142	Poultry farming (eggs)	85	85	84
0151	Pig farming	135	127	111
0152	Horse farming	113	110	113
0153	Deer farming	38	40	15
0159	Livestock farming n.e.c.	156	162	114
0161	Sugar cane growing	—	—	1
0162	Cotton growing	—	—	—
0169	Crop and plant growing n.e.c.	62	77	56
Total (ANZSIC Code 01)		13 683	13 640	13 553
02	Services to agriculture; hunting and trapping	9	30	41
03	Forestry and logging	3	6	4
04	Commercial fishing	8	9	12
Total (ANZSIC Division A)		13 703	13 685	13 610
All other ANZSIC Divisions		121	157	170
Unclassified		147	145	92
Total all industries		13 971	13 987	13 872

(a) Number of establishments with an EVAO of \$5,000 or more at the time of selection in the agricultural census. See explanatory note 4 on page 67.

2

ESTABLISHMENTS BY INDUSTRY, EVAO \$22,500 and over, at 31 March

Industry class		1995	1996	1997
ANZSIC code	Industry of establishment	no.	no.	no.
0111	Plant nurseries	126	136	124
0112	Cut flower and flower seed growing	95	112	131
0113	Vegetable growing	486	512	477
0114	Grape growing	158	195	213
0115	Apple and pear growing	184	207	198
0116	Stone fruit growing	120	117	144
0117	Kiwi fruit growing	6	8	4
0119	Fruit growing n.e.c.	214	221	238
0121	Grain growing	2 246	2 702	2 561
0122	Grain-sheep/beef cattle farming	4 019	3 654	4 019
0123	Sheep-beef cattle farming	530	533	495
0124	Sheep farming	1 627	1 493	1 395
0125	Beef cattle farming	1 060	1 186	1 153
0130	Dairy cattle farming	505	460	452
0141	Poultry farming (meat)	59	56	53
0142	Poultry farming (eggs)	81	81	79
0151	Pig farming	122	117	99
0152	Horse farming	68	72	72
0153	Deer farming	35	36	4
0159	Livestock farming n.e.c.	113	130	79
0161	Sugar cane growing	—	—	1
0162	Cotton growing	—	—	—
0169	Crop and plant growing n.e.c.	49	55	39
Total (ANZSIC Code 01)		11 903	12 083	12 030
02	Services to agriculture; hunting and trapping	5	14	24
03	Forestry and logging	1	2	1
04	Commercial fishing	4	7	5
Total (ANZSIC Division A)		11 913	12 106	12 060
All other ANZSIC Divisions		75	107	105
Unclassified		—	—	—
Total all industries		11 988	12 213	12 165

3 ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, Statistical Divisions, EVAO \$5,000 & over(a)(b)

	1995	1996	1997
<i>Statistical division</i>	no.	no.	no.
Perth	1 269	1 234	1 224
South West	2 804	2 831	2 786
Lower Great Southern	2 456	2 457	2 458
Upper Great Southern	1 858	1 865	1 851
Midlands	3 168	3 172	3 161
South Eastern	740	739	734
Central	1 432	1 442	1 417
Pilbara	58	57	59
Kimberley	186	190	182
Western Australia	13 971	13 987	13 872

(a) See explanatory note 4 on page 67.

(b) Figures are at 31 March.

4 ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, Statistical Divisions, EVAO \$22,500 & over(a)

	1995	1996	1997
<i>Statistical division</i>	no.	no.	no.
Perth	870	897	875
South West	2 023	2 112	2 090
Lower Great Southern	2 104	2 166	2 178
Upper Great Southern	1 789	1 804	1 804
Midlands	2 927	2 955	2 952
South Eastern	712	708	703
Central	1 349	1 360	1 355
Pilbara	57	57	59
Kimberley	157	154	149
Western Australia	11 988	12 213	12 165

(a) Figures are at 31 March.

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ESTABLISHMENTS BY INDUSTRY, By EVAO range, at 31 March 1997

ESTIMATED VALUE OF AGRICULTURAL OPERATIONS(\$).....

Industry class		Less than 5,000(a)	5,000 to 22,499	22,500 to 49,999	50,000 to 99,999
ANZSIC code	Industry of establishment	no.	no.	no.	no.
0111	Plant nurseries	—	23	21	42
0112	Cut flower and flower seed growing	1	15	37	38
0113	Vegetable growing	12	60	74	73
0114	Grape growing	5	76	98	60
0115	Apple and pear growing	1	19	30	35
0116	Stone fruit growing	6	34	48	47
0117	Kiwi fruit growing	—	—	2	—
0119	Fruit growing n.e.c.	6	65	60	36
0121	Grain growing	2	30	36	78
0122	Grain-sheep/beef cattle farming	1	36	92	264
0123	Sheep-beef cattle farming	4	69	115	137
0124	Sheep farming	25	182	220	328
0125	Beef cattle farming	66	654	532	273
0130	Dairy cattle farming	1	7	4	18
0141	Poultry farming (meat)	—	2	1	1
0142	Poultry farming (eggs)	2	3	4	6
0151	Pig farming	1	11	13	19
0152	Horse farming	8	33	34	21
0153	Deer farming	5	6	3	1
0159	Livestock farming n.e.c.	15	20	38	20
0161	Sugar cane growing	—	—	—	—
0162	Cotton growing	—	—	—	—
0169	Crop and plant growing n.e.c.	—	17	14	7
Total (ANZSIC Code 01)		161	1 362	1 476	1 504
02	Services to agriculture; hunting and trapping	3	14	7	9
03	Forestry and logging	—	3	—	—
04	Commercial fishing	2	5	1	—
Total (ANZSIC Division A)		166	1 384	1 484	1 513
All other ANZSIC Divisions		10	55	33	21
Unclassified		92	—	—	—
Total all industries		268	1 439	1 517	1 534

(a) See explanatory note 4 on page 67.

ESTIMATED VALUE OF AGRICULTURAL OPERATIONS(\$)

<i>Industry class</i>		<i>100,000 to 199,999</i>	<i>200,000 to 499,999</i>	<i>500,000 or more</i>	<i>Total establishments</i>
<i>ANZSIC code</i>	<i>Industry of establishment</i>	<i>no.</i>	<i>no.</i>	<i>no.</i>	<i>no.</i>
0111	Plant nurseries	27	23	11	147
0112	Cut flower and flower seed growing	27	15	14	147
0113	Vegetable growing	106	125	99	549
0114	Grape growing	32	16	7	294
0115	Apple and pear growing	53	56	24	218
0116	Stone fruit growing	40	7	2	184
0117	Kiwi fruit growing	1	—	1	4
0119	Fruit growing n.e.c.	85	40	17	309
0121	Grain growing	171	841	1 435	2 593
0122	Grain-sheep/beef cattle farming	857	1 949	857	4 056
0123	Sheep-beef cattle farming	120	87	36	568
0124	Sheep farming	380	370	97	1 602
0125	Beef cattle farming	169	105	74	1 873
0130	Dairy cattle farming	110	254	66	460
0141	Poultry farming (meat)	3	14	34	55
0142	Poultry farming (eggs)	14	30	25	84
0151	Pig farming	16	20	31	111
0152	Horse farming	14	3	—	113
0153	Deer farming	—	—	—	15
0159	Livestock farming n.e.c.	10	5	6	114
0161	Sugar cane growing	—	—	1	1
0162	Cotton growing	—	—	—	—
0169	Crop and plant growing n.e.c.	6	5	7	56
Total (ANZSIC Code 01)		2 241	3 965	2 844	13 553
02	Services to agriculture; hunting and trapping	5	2	1	41
03	Forestry and logging	—	—	1	4
04	Commercial fishing	3	1	—	12
Total (ANZSIC Division A)		2 249	3 968	2 846	13 610
All other ANZSIC Divisions		22	20	9	170
Unclassified		—	—	—	92
Total all industries		2 271	3 988	2 855	13 872

		AREA OF ESTABLISHMENT (HECTARES).....				
Industry class		0 to 49	50 to 99	100 to 499	500 to 999	1,000 to 2,499
ANZSIC code	Industry of establishment	no.	no.	no.	no.	no.
0111	Plant nurseries	128	9	8	—	2
0112	Cut flower and flower seed growing	87	17	35	4	4
0113	Vegetable growing	318	53	138	33	5
0114	Grape growing	206	43	43	2	—
0115	Apple and pear growing	125	31	59	3	—
0116	Stone fruit growing	153	11	19	1	—
0117	Kiwi fruit growing	2	2	—	—	—
0119	Fruit growing n.e.c.	264	23	19	2	1
0121	Grain growing	10	17	120	186	979
0122	Grain-sheep/beef cattle farming	11	15	300	783	2 054
0123	Sheep-beef cattle farming	7	34	232	119	98
0124	Sheep farming	51	84	432	372	379
0125	Beef cattle farming	157	313	978	145	97
0130	Dairy cattle farming	6	22	356	59	17
0141	Poultry farming (meat)	47	5	3	—	—
0142	Poultry farming (eggs)	71	3	8	2	—
0151	Pig farming	36	23	29	8	12
0152	Horse farming	48	36	28	1	—
0153	Deer farming	9	—	6	—	—
0159	Livestock farming n.e.c.	76	10	20	3	4
0161	Sugar cane growing	—	—	—	1	—
0162	Cotton growing	—	—	—	—	—
0169	Crop and plant growing n.e.c.	16	12	16	4	7
Total (ANZSIC Code 01)		1 828	763	2 849	1 728	3 659
02	Services to agriculture; hunting and trapping	10	6	14	3	5
03	Forestry and logging	2	1	1	—	—
04	Commercial fishing	5	—	4	—	2
Total (ANZSIC Division A)		1 845	770	2 868	1 731	3 666
All other ANZSIC Divisions		62	19	45	17	16
Unclassified		34	13	25	11	2
Total all industries		1 941	802	2 938	1 759	3 684

AREA OF ESTABLISHMENT (HECTARES).....

Industry class		2,500 to 4,999	5,000 to 9,999	10,000 to 24,999	25,000 to 99,999	100,000 or more	Total establishments
ANZSIC code	Industry of establishment	no.	no.	no.	no.	no.	no.
0111	Plant nurseries	—	—	—	—	—	147
0112	Cut flower and flower seed growing	—	—	—	—	—	147
0113	Vegetable growing	—	1	—	1	—	549
0114	Grape growing	—	—	—	—	—	294
0115	Apple and pear growing	—	—	—	—	—	218
0116	Stone fruit growing	—	—	—	—	—	184
0117	Kiwi fruit growing	—	—	—	—	—	4
0119	Fruit growing n.e.c.	—	—	—	—	—	309
0121	Grain growing	917	331	28	5	—	2 593
0122	Grain-sheep/beef cattle farming	734	127	24	6	2	4 056
0123	Sheep-beef cattle farming	30	6	—	3	39	568
0124	Sheep farming	62	12	6	57	147	1 602
0125	Beef cattle farming	21	10	3	11	138	1 873
0130	Dairy cattle farming	—	—	—	—	—	460
0141	Poultry farming (meat)	—	—	—	—	—	55
0142	Poultry farming (eggs)	—	—	—	—	—	84
0151	Pig farming	1	1	1	—	—	111
0152	Horse farming	—	—	—	—	—	113
0153	Deer farming	—	—	—	—	—	15
0159	Livestock farming n.e.c.	1	—	—	—	—	114
0161	Sugar cane growing	—	—	—	—	—	1
0162	Cotton growing	—	—	—	—	—	—
0169	Crop and plant growing n.e.c.	1	—	—	—	—	56
Total (ANZSIC Code 01)		1 767	488	62	83	326	13 553
02	Services to agriculture; hunting and trapping	—	—	—	2	1	41
03	Forestry and logging	—	—	—	—	—	4
04	Commercial fishing	1	—	—	—	—	12
Total (ANZSIC Division A)		1 768	488	62	85	327	13 610
All other ANZSIC Divisions		6	—	1	2	2	170
Unclassified		—	—	—	—	7	92
Total all industries		1 774	488	63	87	336	13 872

7

AREA AND LAND USE OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, At 31 March 1997

Statistical division	Area of cereal crops(a)	Area of other crops	Area of orchard trees	Area of vegetables
	'000 ha	'000 ha	'000 ha	'000 ha
Perth	1.2	2.2	1.6	2.1
South West	37.3	9.5	3.3	4.6
Lower Great Southern	648.9	127.0	0.1	1.1
Upper Great Southern	1 150.2	180.9	0.1	—
Midlands	2 370.0	543.7	0.6	1.0
South Eastern	490.5	54.7	—	—
Central	936.1	373.2	0.3	0.5
Pilbara	—	—	—	—
Kimberley	1.8	3.3	0.3	1.9
Western Australia				
1997	5 636.0	1 294.4	6.3	11.1
1996	5 203.8	1 304.4	6.3	10.5
1995	4 801.8	1 337.8	6.1	9.3

Statistical division	Area of agricultural holdings	Area of non-agricultural land(b)	Total area (agricultural and non-agricultural land)
	'000 ha	'000 ha	'000 ha
Perth	81.5	464.2	545.7
South West	859.5	1 824.7	2 684.2
Lower Great Southern	2 858.3	1 040.9	3 899.2
Upper Great Southern	3 400.8	1 245.1	4 645.9
Midlands	7 023.9	4 081.4	11 105.3
South Eastern	17 239.1	44 083.1	61 322.2
Central	42 476.1	34 062.0	76 538.1
Pilbara	13 986.3	36 958.7	50 945.0
Kimberley	24 556.5	17 546.2	42 102.7
Western Australia			
1997	112 482.1	141 306.2	253 788.3
1996	114 525.4	139 262.9	253 788.3
1995	113 955.2	139 833.1	253 788.3

(a) Excludes pastures and grasses harvested for hay and seed.

(b) 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.

SEEDLINGS PLANTED.....

Statistical division	For timber/pulp.....		For other purposes.....	
	'000	'000 ha	'000	'000 ha
Perth	12.4	—	112.6	0.3
South West	776.7	0.6	451.9	1.0
Lower Great Southern	3 586.1	3.1	1 595.0	4.8
Upper Great Southern	424.3	0.3	2 059.6	4.9
Midlands	367.3	0.3	4 746.0	12.7
South Eastern	227.9	0.2	911.3	1.8
Central	145.4	0.1	1 466.5	7.4
Pilbara	—	—	—	—
Kimberley	0.1	—	—	—
Western Australia				
1997	5 540.2	4.6	11 343.1	33.0
1996	4 563.9	3.5	6 247.2	15.2

SEED SOWN

TIMBER HARVESTED

Statistical division	SEED SOWN		TIMBER HARVESTED	
	kg	'000 ha	Hardwood tonnes	Softwood tonnes
Perth	44	—	655	2 578
South West	19	—	16 115	233
Lower Great Southern	778	0.5	651	—
Upper Great Southern	437	0.2	—	1 850
Midlands	1 749	1.1	4	—
South Eastern	347	0.2	1	12
Central	1 231	0.5	—	—
Pilbara	—	—	—	—
Kimberley	10	—	—	—
Western Australia				
1997	4 615	2.5	17 426	4 673
1996	4 537	3.2	5 739	4 211

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

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FENCING, Year ended 31 March 1997(a)

KILOMETRES ERECTED TO ISOLATE.....

Statistical division	Saline areas	Other degraded areas	Creeks and rivers	Remnant native vegetation	Planted trees and shrubs
	km	km	km	km	km
Perth	5.0	1.5	12.6	8.4	58.0
South West	58.4	51.5	173.2	176.4	437.0
Lower Great Southern	497.1	132.7	527.9	681.5	1 135.0
Upper Great Southern	561.5	89.2	226.1	521.2	2 560.2
Midlands	715.3	127.9	272.3	449.7	1 184.5
South Eastern	206.6	93.7	54.2	209.0	276.6
Central	164.2	173.5	90.2	244.8	455.4
Pilbara	—	36.0	9.6	21.0	15.0
Kimberley	50.0	58.0	85.5	13.0	400.0
Western Australia					
1997	2 258.1	764.0	1 451.6	2 325.0	6 521.7
1996	3 495.1	2 131.4	3 165.2	3 489.6	50 433.4

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

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IRRIGATION AREA, Year ended 31 March 1997(a)

Statistical division	Cereals	Fruit and nuts	Grapevines	Pastures	Sugar cane	Vegetables	Other crops	Total
	ha	ha	ha	ha	ha	ha	ha	ha
Perth	—	1 186	501	322	—	1 124	288	3 421
South West	124	2 450	1 454	9 202	—	3 426	962	17 618
Lower Great Southern	—	82	393	32	—	136	39	682
Upper Great Southern	—	17	27	15	—	—	14	73
Midlands	—	411	226	381	—	538	190	1 748
South Eastern	—	1	3	—	—	3	—	7
Central	—	310	47	20	—	311	76	764
Pilbara	10	—	—	24	—	—	—	34
Kimberley	1 786	299	2	596	853	1 799	764	6 098
Western Australia								
1997	1 920	4 756	2 654	10 592	853	7 336	2 333	30 444
1996	n.c.	n.c.	n.c.	n.c.	n.c.	n.c.	n.c.	27 264

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

<i>Statistical division</i>	BARLEY			OATS.....		
	<i>Area</i>	<i>Production</i>	<i>Yield</i>	<i>Area</i>	<i>Production</i>	<i>Yield</i>
	'000 ha	'000 t	t/ha	'000 ha	'000 t	t/ha
Perth	0.1	0.2	1.9	0.3	0.5	2.0
South West	11.7	23.7	2.0	13.6	29.1	2.1
Lower Great Southern	259.3	497.2	1.9	78.8	153.3	1.9
Upper Great Southern	190.0	322.6	1.7	122.1	212.3	1.7
Midlands	151.2	254.8	1.7	71.2	105.0	1.5
South Eastern	230.7	431.6	1.9	12.9	20.4	1.6
Central	66.4	105.2	1.6	17.4	25.4	1.5
Pilbara	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—
Western Australia						
1997	909.3	1 635.3	1.8	316.3	546.1	1.7
1996	744.5	1 322.8	1.8	300.4	584.8	1.9
1995	579.1	914.9	1.6	256.5	424.8	1.7

<i>Statistical division</i>	TRITICALE.....			WHEAT.....		
	<i>Area</i>	<i>Production</i>	<i>Yield</i>	<i>Area</i>	<i>Production</i>	<i>Yield</i>
	'000 ha	'000 t	t/ha	'000 ha	'000 t	t/ha
Perth	—	—	—	—	—	—
South West	0.2	0.1	0.8	2.0	3.3	1.6
Lower Great Southern	6.6	11.6	1.8	279.9	569.6	2.0
Upper Great Southern	1.6	2.4	1.5	811.0	1 446.6	1.8
Midlands	14.1	15.8	1.1	2 095.9	3 655.1	1.7
South Eastern	2.1	3.8	1.8	233.7	406.4	1.7
Central	1.3	1.6	1.2	841.2	1 435.0	1.7
Pilbara	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—
Western Australia						
1997	25.9	35.3	1.4	4 263.7	7 516.0	1.8
1996	16.9	20.4	1.2	3 892.4	6 826.7	1.8
1995	13.6	12.0	0.9	3 848.3	5 437.9	1.4

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OTHER CROPS, Year ended 31 March 1997

Statistical division	SEED COTTON			SUGAR CANE.....		
	Area ha	Production t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Kimberley(a)	80	240	3.0	1.0	169.5	164.7
Western Australia						
1997	80	240	3.0	1.0	169.5	164.7
1996	12	36	3.0	0.6	69.2	121.9

(a) There was no production in other statistical divisions.

Statistical division	CHICK PEAS			FABA BEANS		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Perth	—	—	—	—	—	—
South West	—	—	—	—	—	1.4
Lower Great Southern	1.3	1.0	0.8	2.5	1.7	0.7
Upper Great Southern	5.7	3.2	0.6	3.2	3.3	1.0
Midlands	19.4	12.6	0.7	11.4	10.7	0.9
South Eastern	0.4	0.3	0.7	2.6	3.3	1.3
Central	14.8	13.1	0.9	1.9	2.4	1.2
Pilbara	—	—	—	—	—	—
Kimberley	1.0	1.4	1.5	—	—	—
Western Australia						
1997	42.6	31.8	0.7	21.6	21.3	1.0
1996	31.4	26.3	0.8	19.2	20.2	1.1
1995	13.4	8.1	0.6	23.5	12.0	0.5

Statistical division	FIELD PEAS			LUPINS		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Perth	—	—	—	—	—	—
South West	—	—	—	2.4	3.1	1.3
Lower Great Southern	1.0	1.3	1.3	68.7	73.3	1.1
Upper Great Southern	5.4	5.3	1.0	142.1	151.0	1.1
Midlands	14.5	13.9	1.0	484.6	539.5	1.1
South Eastern	4.2	4.6	1.1	31.5	41.9	1.3
Central	1.3	1.1	0.8	351.1	462.8	1.3
Pilbara	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—
Western Australia						
1997	26.3	26.2	1.0	1 080.4	1 271.7	1.2
1996	37.6	33.7	0.9	1 100.3	1 290.0	1.2
1995	42.7	24.2	0.6	1 152.1	982.2	0.9

Statistical division	CEREALS FOR HAY.....			OTHER CROPS		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Perth	0.8	3.1	3.9	0.4	1.5	3.3
South West	8.3	37.3	4.5	1.4	5.1	3.6
Lower Great Southern	21.4	93.4	4.4	2.1	5.9	2.8
Upper Great Southern	21.7	83.9	3.9	0.3	0.8	3.3
Midlands	33.3	130.1	3.9	1.4	4.1	2.9
South Eastern	10.2	35.5	3.5	0.4	1.0	2.9
Central	7.9	28.7	3.6	0.1	0.4	2.7
Pilbara	—	0.1	4.0	—	—	—
Kimberley	0.1	1.2	19.0	—	—	—
Western Australia						
1997	103.7	413.3	4.0	6.1	18.8	3.1
1996	133.7	536.2	4.0	1.4	4.6	3.3
1995	104.2	383.0	3.7	0.3	1.4	4.7

Statistical division	LUCERNE			OTHER PASTURES(a).....		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Perth	0.5	1.2	2.4	4.2	17.3	4.1
South West	2.5	13.4	5.4	57.2	222.1	3.9
Lower Great Southern	0.3	0.9	3.1	17.0	63.3	3.7
Upper Great Southern	0.1	0.2	3.8	1.0	2.5	2.6
Midlands	2.0	4.8	2.4	3.6	9.3	2.6
South Eastern	0.1	0.3	3.1	1.6	4.8	3.0
Central	—	0.1	2.9	1.1	3.0	2.8
Pilbara	—	—	—	—	—	—
Kimberley	—	—	—	0.6	2.5	4.0
Western Australia						
1997	5.4	20.8	3.8	86.4	324.9	3.8
1996	n.c.	n.c.	..	111.5	413.4	3.7
1995	n.c.	n.c.	..	113.0	404.2	3.6

(a) Data for 1995 and 1996 includes lucerne cut for hay.

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CANOLA, Year ended 31 March 1997

CANOLA

Statistical division	Area	Production	Yield
	'000 ha	'000 t	t/ha
Perth	0.2	0.2	1.3
South West	2.9	3.3	1.1
Lower Great Southern	49.9	51.4	1.0
Upper Great Southern	24.1	22.5	0.9
Midlands	11.5	11.6	1.0
South Eastern	14.7	15.6	1.1
Central	3.3	3.3	1.0
Pilbara	—	—	—
Kimberley	—	—	—
Western Australia			
1997	106.5	107.9	1.0
1996	99.4	116.9	1.2
1995	104.1	107.9	1.0

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GROSS VALUE OF PRINCIPAL CROPS AND PASTURES

	1994-95	1995-96 ^r	1996-97 ^p
	\$m	\$m	\$m
Cereals for grain			
Barley	179.2	269.2	299.6
Oats	58.7	82.3	70.7
Triticale	1.9	3.7	5.1
Wheat	1 307.4	1 812.0	1 621.1
Other	2.8	1.3	2.1
Total	1 550.1	2 168.4	1 998.6
Crops and pastures for hay			
Crops	56.0	52.3	48.9
Pastures	79.0	86.7	34.8
Legumes for grain			
Lupins	177.3	223.8	193.0
Field peas	5.9	7.6	6.0

	AREA SOWN (HECTARES)					
	0 to 49	50 to 99	100 to 149	150 to 199	200 to 299	300 to 399
Barley for grain						
establishments	785	948	739	476	606	331
percentage of total establishments	17.6	21.2	16.5	10.7	13.6	7.4
area (hectares)	22 932	67 262	88 640	80 466	141 329	111 920
percentage of total area planted	2.5	7.4	9.7	8.8	15.5	12.3
production (tonnes)	40 648	123 414	157 406	144 183	250 579	203 468
percentage of total barley production	2.5	7.5	9.6	8.8	15.3	12.4
Oats						
establishments	1 936	1 165	544	201	224	44
percentage of total establishments	46.6	28.0	13.1	4.8	5.4	1.1
area (hectares)	51 265	79 950	62 635	33 565	50 248	14 363
percentage of total area planted	16.2	25.3	19.8	10.6	15.9	4.5
production (tonnes)	91 316	137 330	105 084	58 453	86 505	24 228
percentage of total oats production	16.7	25.1	19.2	10.7	15.8	4.4
Triticale						
establishments	147	65	43	20	14	5
percentage of total establishments	49	22	14	7	5	2
area (hectares)	3 428	4 214	5 056	3 366	3 391	1 753
percentage of total area planted	13	16	20	13	13	7
production (tonnes)	5 613	6 097	6 828	4 698	4 374	2 664
percentage of total triticale production	16	17	19	13	12	8
Wheat for grain						
establishments	380	382	335	294	588	489
percentage of total establishments	6.4	6.5	5.7	5.0	10.0	8.3
area (hectares)	9 865	27 413	40 601	49 956	142 156	166 658
percentage of total area planted	0.2	0.6	1.0	1.2	3.3	3.9
production (tonnes)	19 055	52 161	75 787	95 978	264 158	302 506
percentage of total wheat production	0.3	0.7	1.0	1.3	3.5	4.0

(a) Year ended 31 March 1997.

AREA SOWN (HECTARES).....

400 to 499 500 to 999 1,000 to 1,499 1,500 to 1,999 2,000 and over Total

Barley for grain						
establishments	206	294	65	11	7	4 468
percentage of total establishments	4.6	6.6	1.5	0.2	0.2	100.0
area (hectares)	89 148	192 089	73 932	18 224	23 362	909 306
percentage of total area planted	9.8	21.1	8.1	2.0	2.6	100.0
production (tonnes)	157 831	348 375	132 001	30 631	46 806	1 635 344
percentage of total barley production	9.7	21.3	8.1	1.9	2.9	100.0
Oats						
establishments	22	13	3	2	—	4 154
percentage of total establishments	0.5	0.3	0.1	—	—	100.0
area (hectares)	9 395	8 122	3 240	3 528	—	316 310
percentage of total area planted	3.0	2.6	1.0	1.1	—	100.0
production (tonnes)	20 086	12 555	4 181	6 321	—	546 059
percentage of total oats production	3.7	2.3	0.8	1.2	—	100.0
Triticale						
establishments	3	3	1	—	—	301
percentage of total establishments	1.0	1.0	0.3	—	—	100.0
area (hectares)	1 290	2 172	1 200	—	—	25 870
percentage of total area planted	5.0	8.4	4.6	—	—	100.0
production (tonnes)	1 700	2 558	800	—	—	35 332
percentage of total triticale production	4.8	7.2	2.3	—	—	100.0
Wheat for grain						
establishments	534	1 469	677	331	425	5 904
percentage of total establishments	9.0	24.9	11.5	5.6	7.2	100.0
area (hectares)	232 493	1 049 369	802 832	562 922	1 179 480	4 263 745
percentage of total area planted	5.5	24.6	18.8	13.2	27.7	100.0
production (tonnes)	433 394	1 906 364	1 433 166	971 635	1 961 808	7 516 013
percentage of total wheat production	5.8	25.4	19.1	12.9	26.1	100.0

(a) Year ended 31 March 1997.

	<i>Barley</i>	<i>Maize</i>	<i>Oats</i>	<i>Triticale</i>	<i>Wheat</i>
<i>Statistical division</i>	no.	no.	no.	no.	no.
Perth	2	—	10	—	2
South West	145	3	257	6	29
Lower Great Southern	1 196	1	1 130	132	825
Upper Great Southern	1 082	—	1 194	18	1 335
Midlands	1 120	—	1 074	106	2 382
South Eastern	541	—	189	26	428
Central	382	—	300	13	902
Pilbara	—	—	—	—	—
Kimberley	—	9	—	—	1
Western Australia					
1997	4 468	13	4 154	301	5 904
1996	4 114	8	4 115	195	5 717
1995	3 774	14	3 815	125	5 814

Statistical division	APPLES				GRAPEFRUIT			
	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree
Perth	92.5	118.3	7 686.5	65.0	0.1	0.3	24.7	78.7
South West	383.4	491.7	30 380.9	61.8	0.2	2.2	62.1	27.9
Lower Great Southern	3.0	9.8	138.3	14.1	—	—	—	—
Upper Great Southern	—	0.1	—	—	—	—	0.1	—
Midlands	1.0	—	12.2	—	0.4	0.4	12.6	31.4
South Eastern	—	—	—	—	—	—	—	—
Central	—	—	—	—	2.9	5.6	445.8	79.5
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	0.4	0.1	3.8	75.2
Western Australia								
1997	479.8	619.9	38 217.9	61.7	3.9	8.6	549.1	63.8
1996	462.6	550.3	38 200.3	69.4	n.c.	n.c.	n.c.	n.c.
1995	495.8	482.3	29 897.7	62.0	n.c.	n.c.	n.c.	n.c.

Statistical division	LEMONS AND LIMES.....				MANDARINS			
	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree
Perth	1.3	12.8	705.6	55.2	4.8	24.6	629.2	25.6
South West	0.2	0.4	7.9	19.0	12.5	12.2	360.0	29.4
Lower Great Southern	0.1	—	0.2	26.1	0.1	—	0.7	50.7
Upper Great Southern	—	—	—	—	0.3	—	0.4	—
Midlands	0.9	1.3	76.6	60.8	16.0	15.9	476.7	30.0
South Eastern	—	—	—	—	—	—	—	—
Central	—	—	0.6	39.5	0.2	0.3	5.2	16.9
Pilbara	—	—	—	—	—	—	—	—
Kimberley	0.2	0.1	3.1	32.7	—	—	—	—
Western Australia								
1997	2.6	14.6	794.0	54.5	33.8	53.0	1 472.1	27.8
1996	4.3	15.1	880.9	58.2	39.8	54.4	1 523.5	28.0
1995	4.5	14.6	960.2	65.7	37.1	52.9	1 584.6	29.9

(a) For footnote see end of table.

Statistical division	NASHI				ORANGES			
	<i>Trees under 6 years</i>	<i>Trees 6 years and over</i>	<i>Production</i>	<i>Yield</i>	<i>Trees under 6 years</i>	<i>Trees 6 years and over</i>	<i>Production</i>	<i>Yield</i>
	'000	'000	tonnes	kg/tree	'000	'000	tonnes	kg/tree
Perth	1.3	1.1	20.9	18.5	2.1	22.0	884.9	40.2
South West	3.1	26.2	486.5	18.6	12.1	28.0	1 269.1	45.3
Lower Great Southern	—	—	—	—	0.2	—	1.0	75.4
Upper Great Southern	—	—	—	—	0.4	—	2.1	—
Midlands	—	—	—	—	21.2	100.3	2 822.7	28.2
South Eastern	—	—	—	—	—	—	—	—
Central	—	—	—	—	0.7	11.9	327.7	27.6
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—	—
Western Australia								
1997	4.6	27.4	507.4	18.5	36.7	162.2	5 307.5	32.7
1996	6.8	24.2	350.6	14.5	45.4	162.4	5 394.6	33.2
1995	15.1	16.4	281.8	17.2	43.3	159.7	5 165.8	32.3

PEARS (EXCLUDING NASHI).....

Statistical division	<i>Trees under 6 years</i>	<i>Trees 6 years and over</i>	<i>Production</i>	<i>Yield</i>
	'000	'000	tonnes	kg/tree
Perth	14.6	35.5	3 216.1	90.5
South West	26.1	87.2	6 710.0	77.0
Lower Great Southern	0.1	0.5	5.6	12.1
Upper Great Southern	—	—	—	—
Midlands	—	—	—	—
South Eastern	—	—	—	—
Central	—	—	—	—
Pilbara	—	—	—	—
Kimberley	—	—	—	—
Western Australia				
1997	40.9	123.2	9 931.7	80.6
1996	46.5	115.4	9 726.5	84.3
1995	48.8	111.4	8 613.8	77.4

(a) Yield is calculated for trees 6 years and over only. However, the production figure used to calculate yield includes any contribution by trees under 6 years. In most cases this contribution is relatively insignificant, but in some instances it can distort yield figures.

APRICOTS					CHERRIES			
Statistical division	Trees under 6 years	Trees 6 years and over	Production	Yield	Trees under 6 years	Trees 6 years and over	Production	Yield
	'000	'000	tonnes	kg/tree	'000	'000	tonnes	kg/tree
Perth	2.7	6.1	207.3	34.2	0.9	2.0	8.4	4.3
South West	8.0	5.0	105.7	21.2	14.0	14.2	57.5	4.1
Lower Great Southern	0.3	0.3	5.6	17.0	5.2	3.9	35.2	9.1
Upper Great Southern	0.1	—	0.6	—	0.4	—	0.1	—
Midlands	0.7	1.4	21.3	15.0	—	—	—	—
South Eastern	—	—	—	—	—	—	—	—
Central	0.1	—	0.7	—	—	—	—	—
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—	—
Western Australia								
1997	12.0	12.8	341.3	26.6	20.5	20.0	101.2	5.1
1996	12.1	12.4	381.5	30.8	20.4	16.9	96.0	5.7
1995	9.1	13.4	416.7	31.1	16.8	16.0	65.2	4.1

NECTARINES					PEACHES			
Statistical division	Trees under 6 years	Trees 6 years and over	Production	Yield	Trees under 6 years	Trees 6 years and over	Production	Yield
	'000	'000	tonnes	kg/tree	'000	'000	tonnes	kg/tree
Perth	46.9	34.3	881.0	25.7	52.1	49.1	1 297.7	26.4
South West	75.6	56.8	1 615.9	28.4	22.3	22.8	569.1	25.0
Lower Great Southern	0.7	0.5	10.9	23.1	0.7	0.7	10.1	13.5
Upper Great Southern	0.3	—	1.5	—	0.2	—	0.5	—
Midlands	12.0	9.8	307.7	31.5	22.2	7.5	233.3	31.2
South Eastern	—	—	—	—	—	—	—	—
Central	8.4	0.1	41.9	419.0	12.2	0.2	80.2	401.1
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—	—
Western Australia								
1997	143.9	101.5	2 858.9	28.2	109.7	80.3	2 190.9	27.3
1996	140.0	88.7	2 586.3	29.2	97.9	75.6	2 042.8	27.0
1995	130.8	84.1	2 199.9	26.2	97.7	70.7	1 888.8	26.7

(a) For footnote see end of table.

Statistical division	PLUMS AND PRUNES				OLIVES.....			
	<i>Trees under 6 years</i>	<i>Trees 6 years and over</i>	<i>Production</i>	<i>Yield</i>	<i>Trees under 6 years</i>	<i>Trees 6 years and over</i>	<i>Production</i>	<i>Yield</i>
	'000	'000	tonnes	kg/tree	'000	'000	tonnes	kg/tree
Perth	76.0	76.2	2 271.8	29.8	—	0.1	6.6	—
South West	166.3	70.7	1 615.7	22.9	3.1	—	1.2	—
Lower Great Southern	0.4	0.3	3.3	9.4	0.8	—	—	—
Upper Great Southern	0.3	—	1.0	—	0.9	—	—	—
Midlands	1.9	0.4	10.4	23.2	—	0.8	—	—
South Eastern	—	—	—	—	0.4	—	—	—
Central	4.4	—	9.4	—	—	—	—	—
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—	—
Western Australia								
1997	249.3	147.7	3 911.5	26.5	5.2	0.9	7.8	8.1
1996	157.0	142.2	3 485.6	24.5	n.c.	n.c.	n.c.	n.c.
1995	122.3	129.5	3 285.0	25.4	n.c.	n.c.	n.c.	n.c.

(a) Yield is calculated for trees 6 years and over only. However, the production figure used to calculate yield includes any contribution by trees under 6 years. In most cases this contribution is relatively insignificant, but in some instances it can distort yield figures.

Statistical division	BANANAS				KIWI FRUIT			
	Area not yet bearing ha	Area of bearing age ha	Production tonnes	Yield t/ha	Area not yet bearing ha	Area of bearing age ha	Production tonnes	Yield t/ha
Perth	—	—	—	—	—	5.5	27.5	5.0
South West	—	—	—	—	0.5	19.3	417.4	21.6
Lower Great Southern	—	—	—	—	—	0.6	8.5	14.2
Upper Great Southern	—	—	—	—	—	—	—	—
Midlands	—	—	—	—	—	—	—	—
South Eastern	—	—	—	—	—	—	—	—
Central	61.8	248.6	9 069.7	36.5	—	—	—	—
Pilbara	—	—	—	—	—	—	—	—
Kimberley	28.7	126.0	4 290.4	34.1	—	—	—	—
Western Australia								
1997	90.5	374.6	13 360.1	35.7	0.5	25.4	453.4	17.9
1996	90.2	380.9	11 987.4	31.5	—	27.4	376.7	13.7
1995	95.0	396.0	13 012.3	32.9	1.0	30.6	394.0	12.9

Statistical division	PAPAWS.....				STRAWBERRIES.....			
	Area not yet bearing ha	Area of bearing age ha	Production tonnes	Yield t/ha	Area not yet bearing ha	Area of bearing age ha	Production tonnes	Yield t/ha
Perth	—	—	—	—	11.9	84.9	1 934.4	22.8
South West	—	—	—	—	—	1.5	39.8	26.5
Lower Great Southern	—	—	—	—	7.7	18.6	469.6	25.2
Upper Great Southern	—	—	—	—	—	—	—	—
Midlands	—	—	—	—	—	—	—	—
South Eastern	—	—	—	—	—	—	—	—
Central	1.2	3.5	67.9	19.4	—	0.7	0.6	0.9
Pilbara	—	—	—	—	—	—	—	—
Kimberley	2.5	5.4	106.2	19.7	—	—	—	—
Western Australia								
1997	3.7	8.9	174.1	19.6	19.6	105.7	2 444.5	23.1
1996	5.3	18.7	135.9	7.3	18.6	97.3	2 648.8	27.2
1995	2.7	10.0	88.8	8.9	11.0	100.2	2 070.3	20.7

Statistical division	AVOCADOS.....				MANGOES.....			
	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree
Perth	2.6	21.4	788.3	36.9	1.8	0.1	5.1	39.6
South West	10.8	15.9	291.0	18.4	—	—	—	—
Lower Great Southern	0.3	0.4	7.0	17.5	—	—	—	—
Upper Great Southern	0.1	—	0.2	—	—	—	—	—
Midlands	2.4	9.8	297.8	30.3	5.6	0.8	20.1	26.1
South Eastern	—	—	—	—	—	—	—	—
Central	1.8	1.9	61.1	32.6	16.8	15.0	652.4	43.5
Pilbara	—	—	—	—	—	—	—	—
Kimberley	—	—	—	—	26.7	11.4	417.4	36.7
Western Australia								
1997	18.0	49.3	1 445.4	29.3	50.9	27.3	1 095.2	40.2
1996	17.8	42.1	1 486.7	35.3	41.5	24.8	1 257.7	50.7
1995	18.9	39.1	1 209.1	30.9	31.0	21.4	1 070.4	50.1

PECANS.....

Statistical division	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield kg/tree
	Perth	0.1	0.2	0.8
South West	0.3	3.0	49.4	16.3
Lower Great Southern	—	—	—	—
Upper Great Southern	0.2	—	—	—
Midlands	0.1	1.0	10.5	10.8
South Eastern	—	—	—	—
Central	—	—	—	—
Pilbara	—	—	—	—
Kimberley	—	—	—	—
Western Australia				
1997	0.7	4.2	60.7	14.5
1996	n.c.	n.c.	n.c.	—

(a) Yield is calculated for trees 6 years and over only. However, the production figure used to calculate yield includes any contribution by trees under 6 years. In most cases this contribution is relatively insignificant, but in some instances it can distort yield figures.

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GROSS VALUE OF CITRUS, POME AND OTHER FRUIT

	1994-95	1995-96r	1996-97p
	\$m	\$m	\$m
Apples	23.7	36.3	41.3
Apricots	0.9	0.8	0.5
Avocados	3.4	4.4	3.9
Bananas	16.8	14.9	18.9
Cherries	0.8	1.1	1.1
Grapes	18.0	24.2	29.2
Lemons and limes	0.5	0.6	0.5
Mandarins	1.9	1.9	2.1
Nectarines	6.4	5.3	6.4
Oranges	1.9	2.2	2.2
Papaws	0.1	0.2	0.4
Peaches	2.0	2.8	3.7
Pears (excluding nashi)	6.5	7.0	8.1
Plums and prunes	5.6	6.3	7.0
Strawberries	11.7	12.8	10.8
Other, including nuts	5.9	7.1	8.7
Total	106.1	127.9	144.8

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GRAPES, Year ended 31 March 1997

AREA OF VINES AT HARVEST.....

Not yet bearing (planted or grafted)

GRAPE PRODUCTION

Statistical division	Prior to	During	Bearing	Winemaking	Drying	Table and other	Total
	collection year	collection year					
	ha	ha	ha	tonnes	tonnes	tonnes	tonnes
Perth	45.7	21.9	715.1	3 213.4	471.3	2 519.5	6 204.2
South West	298.1	291.3	1 437.6	8 427.4	128.8	391.1	8 947.3
Lower Great Southern	29.4	100.4	513.8	3 288.3	—	0.1	3 288.4
Upper Great Southern	8.0	8.0	33.0	205.3	18.8	—	224.1
Midlands	34.4	5.4	363.5	2 153.0	544.9	239.3	2 937.2
South Eastern	0.4	1.2	1.7	7.5	—	—	7.5
Central	14.1	4.2	41.6	—	—	187.2	187.2
Pilbara	—	—	—	—	—	—	—
Kimberley	—	—	—	—	—	—	—
Western Australia							
1997	430.1	432.4	3 106.3	17 294.9	1 163.8	3 337.2	21 795.9
1996	453.3	385.5	2 803.0	17 233.7	1 398.3	3 287.6	21 919.6
1995	197.1	187.0	2 887.0	12 846.0	1 487.0	2 740.4	17 073.4

	Units	1995	1996	1997
Asparagus				
area	ha	43.7	37.6	44.4
production	t	91.8	94.5	111.2
yield	t/ha	2.1	2.5	2.5
Beans — French and runner				
area	ha	212.9	190.1	211.7
production	t	1 269.3	1 168.4	689.6
yield	t/ha	6.0	6.1	3.3
Beetroot				
area	ha	7.8	30.8	7.6
production	t	118.7	316.5	127.6
yield	t/ha	15.2	10.3	16.8
Broccoli				
area	ha	286.0	321.5	384.3
production	t	2 713.1	3 320.3	2 648.6
yield	t/ha	9.5	10.3	6.9
Brussel sprouts				
area	ha	5.4	3.3	4.0
production	t	43.7	67.7	59.8
yield	t/ha	8.1	20.5	15.0
Cabbages				
area	ha	158.2	178.9	143.8
production	t	7 450.6	6 843.3	5 015.0
yield	t/ha	47.1	38.3	34.9
Capsicums, chillies and peppers				
area	ha	146.0	143.6	139.3
production	t	2 307.8	2 080.6	2 225.6
yield	t/ha	15.8	14.5	16.0
Carrots				
area	ha	836.0	1 003.5	1 318.7
production	t	44 672.7	45 369.0	52 992.2
yield	t/ha	53.4	45.2	40.2
Cauliflowers				
area	ha	1 020.5	1 191.5	1 076.3
production	t	15 676.2	19 199.7	16 213.0
yield	t/ha	15.4	16.1	15.1
Celery				
area	ha	77.1	136.4	125.3
production	t	4 967.3	6 913.0	5 921.6
yield	t/ha	64.4	50.7	47.3
Chinese cabbages				
area	ha	105.5	109.4	115.8
production	t	3 198.2	3 260.2	2 908.9
yield	t/ha	30.3	29.8	25.1
Cucumbers				
area	ha	93.1	91.1	84.5
production	t	1 298.2	1 821.2	1 725.9
yield	t/ha	13.9	20.0	20.4
Green peas (pod weight)				
area	ha	667.0	632.6	808.7
production	t	1 749.8	3 402.9	3 860.0
yield	t/ha	2.6	5.4	4.8
Leeks				
area	ha	11.9	9.3	13.8
production	t	175.5	228.3	218.1
yield	t/ha	14.7	24.5	15.8
Lettuces				
area	ha	434.1	376.6	325.2
production	t	13 545.4	12 035.1	10 196.9
yield	t/ha	31.2	32.0	31.4
Marrows and squashes				
area	ha	28.6	37.7	48.4
production	t	162.2	178.6	219.6
yield	t/ha	5.7	4.7	4.5

	Units	1995	1996	1997
Melons — rock and cantaloupe				
area	ha	526.7	597.3	568.8
production	t	8 294.1	22 142.1	10 453.8
yield	t/ha	15.7	37.1	18.4
Melons — water				
area	ha	638.9	600.8	857.9
production	t	15 674.2	16 328.6	22 950.1
yield	t/ha	24.5	27.2	26.8
Mushrooms				
area	ha	10.2	5.1	5.9
production	t	1 284.7	972.0	1 314.6
yield	t/ha	126.0	190.6	222.8
Onions — white and brown				
area	ha	398.0	477.6	389.4
production	t	22 691.1	27 191.0	20 320.7
yield	t/ha	57.0	56.9	52.2
Parsley				
area	ha	3.5	2.5	2.5
production	t	20.9	13.6	5.1
yield	t/ha	6.0	5.4	2.0
Parsnips				
area	ha	58.0	50.0	69.8
production	t	917.1	786.9	851.2
yield	t/ha	15.8	15.7	12.2
Potatoes				
area	ha	2 553.0	2 836.0	3 021.9
production	t	103 572.5	121 546.1	116 003.6
yield	t/ha	40.6	42.9	38.4
Pumpkins				
area	ha	511.6	668.2	754.5
production	t	9 152.2	12 507.1	14 513.0
yield	t/ha	17.9	18.7	19.2
Snow peas				
area	ha	4.3	6.3	5.3
production	t	2.3	15.0	10.8
yield	t/ha	0.5	2.4	2.0
Spring onions				
area	ha	13.9	11.4	9.3
production	t	536.6	466.0	184.5
yield	t/ha	38.6	40.9	19.8
Swedes				
area	ha	13.5	14.8	22.5
production	t	212.8	228.4	253.3
yield	t/ha	15.8	15.4	11.3
Sweet corn				
area	ha	86.6	167.5	163.0
production	t	1 168.0	1 454.2	1 668.1
yield	t/ha	13.5	8.7	10.2
Sweet potatoes				
area	ha	22.3	29.7	31.0
production	t	301.9	572.1	721.0
yield	t/ha	13.5	19.3	23.3
Tomatoes				
area	ha	192.7	198.1	218.0
production	t	7 693.6	8 968.7	9 038.2
yield	t/ha	39.9	45.3	41.5
Zucchini				
area	ha	67.5	65.8	57.0
production	t	608.9	717.5	530.7
yield	t/ha	9.0	10.9	9.3

	Units	Perth	South West	Lower Great Southern	Upper Great Southern	Midlands
Asparagus						
area	ha	1.1	6.0	11.8	—	15.1
production	t	5.7	10.0	49.0	—	17.7
yield	t/ha	5.2	1.7	4.2	—	1.2
Beans — French and runner						
area	ha	16.8	20.7	18.0	—	—
production	t	77.9	117.0	73.8	—	—
yield	t/ha	4.6	5.7	4.1	—	—
Beetroot						
area	ha	1.6	0.2	—	—	5.8
production	t	47.1	3.5	—	—	77.0
yield	t/ha	29.4	17.5	—	—	13.3
Broccoli						
area	ha	257.6	81.0	33.7	—	11.5
production	t	1 790.6	569.2	226.6	—	58.3
yield	t/ha	7.0	6.8	6.7	—	5.1
Brussel sprouts						
area	ha	3.3	0.7	—	—	—
production	t	39.0	20.8	—	—	—
yield	t/ha	11.8	29.7	—	—	—
Cabbages						
area	ha	132.8	7.6	1.4	—	1.0
production	t	4 686.6	251.2	26.8	—	10.4
yield	t/ha	35.3	33.1	19.1	—	10.4
Capsicums, chillies and peppers						
area	ha	43.7	3.2	0.1	—	0.1
production	t	870.9	42.0	1.5	—	0.7
yield	t/ha	19.9	13.1	15.0	—	7.0
Carrots						
area	ha	359.5	193.4	1.3	—	746.5
production	t	14 437.7	9 936.1	62.5	—	27 835.9
yield	t/ha	40.2	51.4	48.1	—	37.3
Cauliflowers						
area	ha	177.4	834.7	36.6	1.5	25.6
production	t	3 370.1	11 959.6	452.5	10.8	420.0
yield	t/ha	19.0	14.3	12.4	7.2	16.4
Celery						
area	ha	47.4	77.6	0.3	—	—
production	t	2 201.1	3 700.5	20.0	—	—
yield	t/ha	46.4	47.7	66.7	—	—
Chinese cabbages						
area	ha	74.3	39.4	—	—	—
production	t	2 541.1	328.4	—	—	—
yield	t/ha	34.2	8.3	—	—	—
Cucumbers						
area	ha	27.8	3.9	0.4	—	2.0
production	t	783.8	143.9	8.0	—	18.6
yield	t/ha	28.2	36.9	20.0	—	9.3
Green peas (pod weight)						
area	ha	1.7	2.7	803.3	—	—
production	t	4.4	4.3	3 850.2	—	—
yield	t/ha	2.6	1.6	4.8	—	—
Leeks						
area	ha	12.8	1.0	—	—	—
production	t	216.6	1.5	—	—	—
yield	t/ha	16.9	1.5	—	—	—
Lettuces						
area	ha	277.3	2.0	4.3	—	41.3
production	t	8 902.9	73.3	131.0	—	1 089.0
yield	t/ha	32.1	36.7	30.5	—	26.4
Marrows and squashes						
area	ha	2.7	2.1	2.1	—	4.2
production	t	14.3	10.4	12.5	—	18.2
yield	t/ha	5.3	5.0	6.0	—	4.3

	Units	South Eastern	Central	Pilbara	Kimberley
Asparagus					
area	ha	—	9.4	—	1.0
production	t	—	26.0	—	2.8
yield	t/ha	—	2.8	—	2.8
Beans — French and runner					
area	ha	—	36.2	—	120.0
production	t	—	164.5	—	256.5
yield	t/ha	—	4.5	—	2.1
Beetroot					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Broccoli					
area	ha	—	0.5	—	—
production	t	—	4.0	—	—
yield	t/ha	—	8.0	—	—
Brussel sprouts					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Cabbages					
area	ha	—	1.0	—	—
production	t	—	40.0	—	—
yield	t/ha	—	40.0	—	—
Capsicums, chillies and peppers					
area	ha	—	92.0	—	0.2
production	t	—	1 309.8	—	0.6
yield	t/ha	—	14.2	—	3.0
Carrots					
area	ha	—	18.0	—	—
production	t	—	720.0	—	—
yield	t/ha	—	40.0	—	—
Cauliflowers					
area	ha	—	0.5	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Celery					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Chinese cabbages					
area	ha	—	2.1	—	—
production	t	—	39.4	—	—
yield	t/ha	—	18.8	—	—
Cucumbers					
area	ha	—	42.5	—	7.9
production	t	—	672.8	—	98.7
yield	t/ha	—	15.8	—	12.5
Green peas (pod weight)					
area	ha	—	1.0	—	—
production	t	—	1.2	—	—
yield	t/ha	—	1.2	—	—
Leeks					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Lettuces					
area	ha	—	—	—	0.3
production	t	—	—	—	0.7
yield	t/ha	—	—	—	2.3
Marrows and squashes					
area	ha	—	1.7	—	35.6
production	t	—	12.7	—	151.5
yield	t/ha	—	7.5	—	4.3

	Units	Perth	South West	Lower Great Southern	Upper Great Southern	Midlands
Melons — rock and cantaloupe						
area	ha	28.8	11.5	0.1	—	14.3
production	t	415.0	324.1	0.3	—	207.0
yield	t/ha	14.4	28.2	3.0	—	14.5
Melons — water						
area	ha	15.7	77.1	—	—	8.5
production	t	329.7	1 854.0	—	—	210.0
yield	t/ha	21.0	24.0	—	—	24.7
Mushrooms						
area	ha	5.9	—	—	—	—
production	t	1 314.6	—	—	—	—
yield	t/ha	222.8	—	—	—	—
Onions — white and brown						
area	ha	125.4	215.6	0.8	—	35.2
production	t	6 013.5	11 512.7	38.0	—	2 015.5
yield	t/ha	48.0	53.4	47.5	—	57.3
Parsley						
area	ha	2.5	—	—	—	—
production	t	5.1	—	—	—	—
yield	t/ha	2.0	—	—	—	—
Parsnips						
area	ha	51.5	17.3	1.0	—	—
production	t	607.7	238.0	5.5	—	—
yield	t/ha	11.8	13.8	5.5	—	—
Potatoes						
area	ha	183.5	2 666.6	136.8	—	27.6
production	t	6 748.9	103 829.0	4 675.0	—	739.7
yield	t/ha	36.8	38.9	34.2	—	26.8
Pumpkins						
area	ha	51.9	161.3	7.5	—	14.2
production	t	1 112.1	2 794.5	75.5	—	228.0
yield	t/ha	21.4	17.3	10.1	—	16.1
Snow peas						
area	ha	2.5	2.0	0.6	—	—
production	t	8.2	1.6	1.0	—	—
yield	t/ha	3.3	0.8	1.7	—	—
Spring onions						
area	ha	8.8	0.5	—	—	—
production	t	184.5	—	—	—	—
yield	t/ha	21.0	—	—	—	—
Swedes						
area	ha	2.7	3.8	1.0	—	5.0
production	t	35.0	52.0	8.5	—	77.8
yield	t/ha	13.0	13.7	8.5	—	15.6
Sweet corn						
area	ha	29.0	85.4	7.7	—	15.9
production	t	272.8	840.4	97.9	—	264.6
yield	t/ha	9.4	9.8	12.7	—	16.6
Sweet potatoes						
area	ha	7.7	—	—	—	—
production	t	225.0	—	—	—	—
yield	t/ha	29.2	—	—	—	—
Tomatoes						
area	ha	57.0	31.1	1.7	—	0.3
production	t	2 647.0	1 585.9	74.3	—	5.2
yield	t/ha	46.4	51.0	43.7	—	17.3
Zucchini						
area	ha	15.4	1.8	0.3	—	1.0
production	t	111.4	14.0	3.0	—	10.0
yield	t/ha	7.2	7.8	10.0	—	10.0

	Units	South Eastern	Central	Pilbara	Kimberley
Melons — rock and cantaloupe					
area	ha	—	65.0	—	449.1
production	t	—	953.9	—	8 553.5
yield	t/ha	—	14.7	—	19.0
Melons — water					
area	ha	—	47.6	—	709.0
production	t	—	1 227.4	—	19 329.0
yield	t/ha	—	25.8	—	27.3
Mushrooms					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Onions — white and brown					
area	ha	—	12.3	—	0.1
production	t	—	735.0	—	6.0
yield	t/ha	—	59.8	—	60.0
Parsley					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Parsnips					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Potatoes					
area	ha	—	1.4	—	6.0
production	t	—	11.0	—	—
yield	t/ha	—	7.9	—	—
Pumpkins					
area	ha	—	33.0	—	486.6
production	t	—	420.9	—	9 882.0
yield	t/ha	—	12.8	—	20.3
Snow peas					
area	ha	—	0.2	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Spring onions					
area	ha	—	—	—	—
production	t	—	—	—	—
yield	t/ha	—	—	—	—
Swedes					
area	ha	—	10.0	—	—
production	t	—	80.0	—	—
yield	t/ha	—	8.0	—	—
Sweet corn					
area	ha	—	19.0	—	6.0
production	t	—	138.4	—	54.0
yield	t/ha	—	7.3	—	9.0
Sweet potatoes					
area	ha	—	1.3	—	22.0
production	t	—	16.0	—	480.0
yield	t/ha	—	12.3	—	21.8
Tomatoes					
area	ha	—	126.2	—	1.7
production	t	—	4 683.9	—	41.9
yield	t/ha	—	37.1	—	24.6
Zucchini					
area	ha	—	19.3	—	19.2
production	t	—	151.8	—	240.5
yield	t/ha	—	7.9	—	12.5

27

GROSS VALUE OF VEGETABLES FOR HUMAN CONSUMPTION

	1994-95	1995-96r	1996-97p
	\$m	\$m	\$m
Asparagus	0.8	0.8	0.7
Beans — French and runner	1.6	1.7	1.6
Beetroot	0.1	0.4	0.1
Broccoli	2.0	4.0	3.5
Cabbages and brussel sprouts	2.1	2.2	2.3
Capsicums, chillies and peppers	4.3	4.6	3.3
Carrots	31.1	27.7	32.1
Cauliflowers	19.5	22.5	19.9
Celery	3.0	3.5	4.7
Cucumbers	1.5	3.0	2.7
Lettuces	7.9	7.3	7.4
Marrows and squashes	0.3	0.7	0.8
Melons — rock and cantaloupe	6.7	8.2	13.5
Melons — water	4.9	5.6	8.8
Mushrooms	5.2	5.2	5.7
Onions — white and brown	9.3	16.1	8.9
Parsnips	1.5	1.3	1.1
Potatoes	37.3	37.9	38.0
Pumpkins	4.7	5.1	6.5
Sweet corn	1.2	1.5	1.9
Tomatoes	8.6	8.0	5.8
Zucchini	0.8	1.4	1.1
Other vegetables	7.3	4.3	10.9
Total	161.7	173.0	181.3

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AREA OF NURSERIES, CUT FLOWERS AND CULTIVATED TURF, Year ended 31 March 1997

	Nurseries	Cut flowers	Cultivated turf
	ha	ha	ha
Perth	257.0	205.2	151.4
South West	146.3	169.4	41.1
Lower Great Southern	38.7	241.5	1.5
Upper Great Southern	0.7	37.1	—
Midlands	82.2	350.2	9.5
South Eastern	0.7	1.2	—
Central	7.3	89.1	4.0
Pilbara	—	—	—
Kimberley	11.8	—	—
Western Australia			
1997	544.7	1 093.7	207.5
1996	716.7	1 204.9	188.2
1995	576.9	1 342.1	149.3

29

MEAT CATTLE NUMBERS, At 31 March 1997

<i>Statistical division</i>	<i>Bulls and bull calves intended for service</i>	<i>Cows and heifers one year and over</i>	<i>Heifers and other calves under one year</i>	<i>Other cattle one year and over</i>	<i>Total meat cattle</i>	<i>Percentage of total meat cattle herd</i>
	'000	'000	'000	'000	'000	%
Perth	0.8	13.6	6.3	4.2	24.9	1.4
South West	7.4	164.6	111.2	92.2	375.4	21.0
Lower Great Southern	5.5	115.3	62.0	28.6	211.5	11.8
Upper Great Southern	1.2	22.5	11.7	6.8	42.2	2.4
Midlands	3.9	82.3	42.9	26.3	155.3	8.7
South Eastern	3.7	72.8	42.5	12.9	131.9	7.4
Central	3.7	91.0	46.9	31.7	173.4	9.7
Pilbara	4.9	93.7	46.3	38.5	183.5	10.3
Kimberley	14.7	271.9	111.4	90.7	488.7	27.4
Western Australia						
1997	45.7	927.7	481.3	332.0	1 786.8	100.0
1996	47.2	934.4	446.9	374.3	1 802.8	100.0
1995	46.8	945.9	434.1	346.2	1 773.1	100.0

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ESTABLISHMENTS WITH MEAT CATTLE, At 31 March 1997

<i>Statistical division</i>	<i>Bulls and bull calves intended for service</i>	<i>Cows and heifers one year and over</i>	<i>Heifers and other calves under one year</i>	<i>Other cattle one year and over</i>	<i>Total establishments with meat cattle</i>	<i>Percentage of establishments with meat cattle</i>
	no.	no.	no.	no.	no.	%
Perth	159	200	176	128	229	4.4
South West	1 449	1 596	1 496	1 382	2 016	38.9
Lower Great Southern	895	1 012	869	588	1 064	20.6
Upper Great Southern	260	306	276	163	326	6.3
Midlands	629	743	643	392	789	15.2
South Eastern	229	267	226	133	276	5.3
Central	263	308	274	207	332	6.4
Pilbara	52	54	52	54	55	1.1
Kimberley	78	85	81	85	90	1.7
Western Australia						
1997	4 014	4 571	4 093	3 132	5 177	100.0
1996	4 042	4 501	4 113	3 169	5 115	100.0
1995	4 058	4 421	4 114	3 040	5 061	100.0

Herd size	1996		1997.....	
	<i>Establishments</i>	<i>Percentage of establishments with meat cattle</i>	<i>Establishments</i>	<i>Percentage of establishments with meat cattle</i>
	no.	%	no.	%
1-29	717	14.0	776	15.0
30-49	514	10.0	531	10.3
50-69	518	10.1	516	10.0
70-99	560	10.9	597	11.5
100-149	748	14.6	726	14.0
150-199	453	8.9	483	9.3
200-299	553	10.8	570	11.0
300-399	282	5.5	241	4.7
400-499	202	3.9	158	3.1
500-699	165	3.2	179	3.5
700-999	139	2.7	130	2.5
1 000-1 499	91	1.8	93	1.8
1 500-1 999	42	0.8	45	0.9
2 000-4 999	83	1.6	83	1.6
5 000-9 999	27	0.5	30	0.6
10 000 and over	21	0.4	19	0.4
Total	5 115	100.0	5 177	100.0

Herd size	1996		1997.....	
	<i>Number of meat cattle</i>	<i>Percentage of total meat cattle</i>	<i>Number of meat cattle</i>	<i>Percentage of total meat cattle</i>
	'000	%	'000	%
1-29	11.1	0.6	11.2	0.6
30-49	20.0	1.1	20.7	1.2
50-69	30.8	1.7	30.4	1.7
70-99	46.5	2.6	49.9	2.8
100-149	91.1	5.0	89.1	5.0
150-199	77.9	4.3	83.9	4.7
200-299	133.7	7.4	138.4	7.7
300-399	96.4	5.3	83.3	4.7
400-499	88.9	4.9	69.9	3.9
500-699	96.3	5.3	103.8	5.8
700-999	113.1	6.3	107.8	6.0
1 000-1 499	110.0	6.1	111.2	6.2
1 500-1 999	70.2	3.9	77.4	4.3
2 000-4 999	266.0	14.8	266.6	14.9
5 000-9 999	185.3	10.3	203.7	11.4
10 000 and over	365.6	20.3	339.5	19.0
Total	1 802.8	100.0	1 786.8	100.0

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MILK CATTLE NUMBERS, At 31 March 1997(a)

Statistical division	Cows in milk and dry	Other milk cattle	Total milk cattle	Percentage of total milk cattle herd
	'000	'000	'000	%
Perth	2.9	1.7	4.6	3.8
South West	62.8	46.6	109.4	89.7
Lower Great Southern	4.4	2.9	7.2	5.9
Upper Great Southern	—	—	0.1	0.1
Midlands	0.1	—	0.1	0.1
South Eastern	—	—	—	—
Central	—	—	—	—
Pilbara	—	—	—	—
Kimberley	0.3	0.1	0.5	0.4
Western Australia				
1997	70.5	51.4	121.9	100.0
1996	70.9	49.9	120.9	100.0
1995	73.2	52.8	126.0	100.0

(a) Excludes house cows.

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ESTABLISHMENTS WITH MILK CATTLE, At 31 March 1997(a)

Statistical division	Cows in milk and dry	Other milk cattle	Total establishments with milk cattle	Percentage of establishments with milk cattle
	no.	no.	no.	%
Perth	19	19	20	4.1
South West	409	409	425	88.0
Lower Great Southern	26	27	28	5.8
Upper Great Southern	2	1	2	0.4
Midlands	3	2	4	0.8
South Eastern	2	2	2	0.4
Central	—	1	1	0.2
Pilbara	—	—	—	—
Kimberley	1	1	1	0.2
Western Australia				
1997	462	462	483	100.0
1996	490	465	517	100.0
1995	546	532	582	100.0

(a) Excludes establishments with house cows.

Herd size	1996		1997	
	<i>Establishments</i>	<i>Percentage of establishments with milk cattle</i>	<i>Establishments</i>	<i>Percentage of establishments with milk cattle</i>
	no.	%	no.	%
1-49	50	9.7	30	6.2
50-99	45	8.7	29	6.0
100-149	64	12.4	63	13.0
150-199	92	17.8	82	17.0
200-249	68	13.2	69	14.3
250-299	59	11.4	60	12.4
300-349	41	7.9	44	9.1
350-399	28	5.4	27	5.6
400-499	36	7.0	38	7.9
500 and over	34	6.6	41	8.5
Total	517	100.0	483	100.0

Herd size	1996		1997	
	<i>Number of milk cattle</i>	<i>Percentage of total milk cattle</i>	<i>Number of milk cattle</i>	<i>Percentage of total milk cattle</i>
	'000	%	'000	%
1-49	0.7	0.6	0.5	0.4
50-99	3.3	2.7	2.0	1.6
100-149	8.0	6.6	7.9	6.5
150-199	15.8	13.1	14.0	11.5
200-249	15.1	12.5	15.2	12.5
250-299	15.9	13.2	16.2	13.3
300-349	13.1	10.8	13.9	11.4
350-399	10.2	8.4	9.8	8.0
400-499	15.8	13.1	16.5	13.5
500 and over	22.9	18.9	25.8	21.2
Total	120.9	100.0	121.9	100.0

(a) Excludes establishments with house cows.

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NUMBER OF SHEEP AND LAMBS, At 31 March 1997

<i>Statistical division</i>	<i>Breeding ewes (1 year and over)</i>	<i>Lambs and hoggets (under 1 year)</i>	<i>All other sheep</i>	<i>Total sheep and lambs</i>	<i>Percentage of total sheep flock</i>
	'000	'000	'000	'000	%
Perth	18.0	13.4	18.9	50.2	0.2
South West	709.2	303.7	457.9	1 470.8	5.3
Lower Great Southern	3 102.5	1 468.0	1 789.3	6 359.7	22.9
Upper Great Southern	2 998.0	1 662.8	1 602.3	6 263.1	22.5
Midlands	3 429.9	1 777.9	1 383.5	6 591.3	23.7
South Eastern	1 419.7	823.0	581.1	2 823.9	10.2
Central	2 045.7	1 056.4	984.2	4 086.3	14.7
Pilbara	96.7	33.6	45.4	175.7	0.6
Kimberley	—	—	—	—	—
Western Australia					
1997	13 819.6	7 138.8	6 862.7	27 821.1	100.0
1996	14 164.2	7 756.6	7 913.2	29 834.0	100.0
1995	n.c.	6 864.4	n.c.	30 217.9	100.0

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ESTABLISHMENTS WITH SHEEP AND LAMBS, At 31 March 1997

<i>Statistical division</i>	<i>Breeding ewes (1 year and over)</i>	<i>Lambs and hoggets (under 1 year)</i>	<i>All other sheep</i>	<i>Total establishments with sheep and lambs</i>	<i>Percentage of total establishments with sheep and lambs</i>
	no.	no.	no.	no.	%
Perth	68	62	84	100	1.1
South West	624	546	684	733	8.4
Lower Great Southern	1 718	1 609	1 806	1 904	21.8
Upper Great Southern	1 622	1 593	1 639	1 731	19.8
Midlands	2 373	2 268	2 373	2 559	29.3
South Eastern	610	575	609	651	7.5
Central	965	911	961	1 031	11.8
Pilbara	18	16	16	18	0.2
Kimberley	—	—	—	—	—
Western Australia					
1997	7 998	7 580	8 172	8 727	100.0
1996	8 191	7 710	8 455	8 930	100.0
1995	n.c.	7 262	n.c.	9 021	100.0

Flock size	1996		1997.....	
	Establishments	Percentage of establishments with sheep and lambs	Establishments	Percentage of establishments with sheep and lambs
	no.	%	no.	%
1-499	1 023	11.5	1 003	11.5
500-999	787	8.8	839	9.6
1 000-1 499	858	9.6	926	10.6
1 500-1 999	909	10.2	995	11.4
2 000-2 499	900	10.1	916	10.5
2 500-2 999	796	8.9	736	8.4
3 000-3 999	1 166	13.1	1 071	12.3
4 000-4 999	747	8.4	721	8.3
5 000-5 999	545	6.1	500	5.7
6 000-6 999	353	4.0	303	3.5
7 000-7 999	211	2.4	170	1.9
8 000-8 999	135	1.5	116	1.3
9 000-9 999	112	1.3	104	1.2
10 000 and over	388	4.3	327	3.7
Total	8 930	100.0	8 727	100.0

Flock size	1996		1997.....	
	Number of sheep and lambs	Percentage of total sheep and lambs	Number of sheep and lambs	Percentage of total sheep and lambs
	'000	%	'000	%
1-499	228.8	0.8	229.9	0.8
500-999	584.7	2.0	620.2	2.2
1 000-1 499	1 071.4	3.6	1 153.1	4.1
1 500-1 999	1 577.5	5.3	1 738.4	6.2
2 000-2 499	2 002.9	6.7	2 042.4	7.3
2 500-2 999	2 173.0	7.3	2 010.6	7.2
3 000-3 999	4 023.0	13.5	3 694.2	13.3
4 000-4 999	3 322.3	11.1	3 180.7	11.4
5 000-5 999	2 956.6	9.9	2 722.2	9.8
6 000-6 999	2 272.1	7.6	1 954.3	7.0
7 000-7 999	1 567.0	5.3	1 266.9	4.6
8 000-8 999	1 139.0	3.8	973.3	3.5
9 000-9 999	1 054.9	3.5	979.0	3.5
10 000 and over	5 860.7	19.6	5 255.8	18.9
Total	29 834.0	100.0	27 821.1	100.0

38

LAMBING, Year ended 31 March 1997

LAMBING EXPECTATIONS YEAR ENDED 31 MARCH 1998(c)

Statistical division	Ewes mated(a) '000	Lambs marked '000	Lamb marking ratio(b) %	Joined to merino rams '000	Joined to short wool rams '000	Joined to other rams '000	Total '000
Perth	16.8	11.5	68.5	4.2	5.2	4.7	14.1
South West	646.2	438.1	67.8	388.5	203.1	77.1	668.7
Lower Great Southern	2 806.2	1 858.1	66.2	2 167.2	498.4	273.6	2 939.1
Upper Great Southern	2 802.2	2 049.0	73.1	2 396.5	364.4	127.5	2 888.4
Midlands	3 175.6	2 497.3	78.6	2 377.3	574.5	289.1	3 240.9
South Eastern	1 372.7	1 025.0	74.7	1 218.7	97.5	105.1	1 421.3
Central	1 819.8	1 325.7	72.8	1 620.6	136.3	76.0	1 832.9
Pilbara	95.4	43.1	45.2	87.1	—	1.0	88.1
Kimberley	—	—	—	—	—	—	—
Western Australia							
1997	12 734.9	9 247.9	72.6	10 260.0	1 879.5	954.1	13 093.7
1996	13 107.0	9 801.0	74.8	10 889.7	n.c.	n.c.	13 310.6
1995	12 925.9	9 080.1	70.2	11 313.0	n.c.	n.c.	13 459.0

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

(b) Lambs marked as a proportion of ewes mated to produce lambs.

(c) Forecast made at the end of the 1996–97 season.

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PIG NUMBERS(a) AND NUMBER OF ESTABLISHMENTS, At 31 March 1997

Statistical division	Total pigs '000	Percentage of total pigs %	Total establishments no.	Percentage of total establishments with pigs %
Perth	17.6	5.9	16	2.4
South West	45.9	15.4	50	7.6
Lower Great Southern	49.9	16.8	109	16.5
Upper Great Southern	60.1	20.2	134	20.3
Midlands	105.7	35.5	276	41.8
South Eastern	4.6	1.5	20	3.0
Central	13.5	4.5	49	7.4
Pilbara	—	—	1	0.2
Kimberley	0.1	—	6	0.9
Western Australia				
1997	297.4	100.0	661	100.0
1996	313.6	100.0	758	100.0
1995	316.4	100.0	841	100.0

(a) Includes suckers, weaners, growers etc.

Herd size	1996.....		1997	
	<i>Establishments</i>	<i>Percentage of establishments with pigs</i>	<i>Establishments</i>	<i>Percentage of establishments with pigs</i>
	no.	%	no.	%
1-9	71	9.4	73	11.0
10-19	65	8.6	51	7.7
20-29	63	8.3	55	8.3
30-39	39	5.1	35	5.3
40-49	34	4.5	41	6.2
50-69	64	8.4	48	7.3
70-99	56	7.4	60	9.1
100-149	65	8.6	65	9.8
150-199	42	5.5	28	4.2
200-299	69	9.1	60	9.1
300-499	67	8.8	48	7.3
500-699	27	3.6	20	3.0
700-999	35	4.6	20	3.0
1 000 and over	61	8.0	57	8.6
Total	758	100.0	661	100.0

Herd size	1996		1997	
	<i>Number of pigs</i>	<i>Percentage of total pigs</i>	<i>Number of pigs</i>	<i>Percentage of total pigs</i>
	'000	%	'000	%
1-9	0.3	0.1	0.4	0.1
10-19	0.9	0.3	0.7	0.2
20-29	1.5	0.5	1.4	0.5
30-39	1.3	0.4	1.2	0.4
40-49	1.5	0.5	1.8	0.6
50-69	3.8	1.2	2.9	1.0
70-99	4.6	1.5	5.0	1.7
100-149	7.9	2.5	7.7	2.6
150-199	7.1	2.3	4.8	1.6
200-299	16.3	5.2	14.5	4.9
300-499	25.5	8.1	19.1	6.4
500-699	16.1	5.1	12.0	4.0
700-999	27.9	8.9	17.4	5.9
1 000 and over	199.0	63.5	208.7	70.2
Total	313.6	100.0	297.4	100.0

(a) Includes suckers, weaners, growers etc.

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POULTRY, NUMBER ON HOLDING, at 31 March 1997

Statistical division	Laying chickens	Meat chickens	Turkeys
	'000	'000	'000
Perth	1 020.5	5 180.0	41.7
South West	84.2	0.3	—
Lower Great Southern	22.0	8.5	0.2
Upper Great Southern	7.8	0.4	—
Midlands	27.1	322.8	—
South Eastern	17.9	5.5	—
Central	57.0	—	—
Pilbara	5.0	—	—
Kimberley	27.4	—	—
Western Australia			
1997	1 268.9	5 517.4	41.9
1996	1 279.2	5 059.4	36.3
1995	n.c.	n.c.	n.c.

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POULTRY, NUMBER DISPOSED OF, Year ended 31 March 1997

Statistical division	Laying chickens	Meat chickens	Turkeys
	'000	'000	'000
Perth	1 669.2	67 533.8	122.7
South West	59.7	0.8	—
Lower Great Southern	44.9	63.2	0.5
Upper Great Southern	3.4	—	—
Midlands	18.4	1 529.6	—
South Eastern	11.5	34.0	0.1
Central	5.5	—	—
Pilbara	0.8	—	—
Kimberley	11.7	—	—
Western Australia			
1997	1 824.9	69 161.4	123.3
1996	1 698.6	65 097.2	128.6
1995	n.c.	n.c.	n.c.

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NUMBER OF OTHER LIVESTOCK, At 31 March 1997

Statistical division	Alpacas	Deer	Emus	Goats	Horses for breeding(a)	Ostriches
	no.	no.	no.	no.	no.	no.
Perth	366	306	584	719	1 450	1 209
South West	31	5 802	1 528	1 590	1 504	2 376
Lower Great Southern	68	2 644	1 240	2 067	664	324
Upper Great Southern	47	778	7 210	2 667	229	219
Midlands	15	1 587	5 110	7 063	518	1 293
South Eastern	7	163	120	2 038	71	20
Central	—	334	4 017	885	129	57
Pilbara	—	—	—	—	63	—
Kimberley	—	—	—	—	185	25
Western Australia						
1997	534	11 614	19 809	17 029	4 813	5 523
1996	n.c.	11 800	n.c.	n.c.	4 600	n.c.
1995	n.c.	14 100	n.c.	n.c.	4 800	n.c.

(a) Comprises horses on establishments with agricultural activity.

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SALES OF LIVESTOCK, Year ended 31 March 1997

Statistical division	Dairy bulls	Beef bulls	Other cattle	Pigs
	'000	'000	'000	'000
Perth	—	0.1	13.1	33.8
South West	0.2	0.9	215.4	78.5
Lower Great Southern	—	0.9	101.3	92.9
Upper Great Southern	—	0.2	18.0	138.7
Midlands	—	0.8	76.4	185.8
South Eastern	—	0.3	48.6	9.9
Central	—	0.3	53.0	25.5
Pilbara	—	0.1	34.1	—
Kimberley	—	0.7	99.9	—
Western Australia				
1997	0.2	4.3	659.9	565.0
1996	0.2	4.6	664.4	568.5

Statistical division	Lambs and hoggets	All other sheep	Horses	Deer
	'000	'000	'000	'000
Perth	30.1	20.2	0.5	0.3
South West	214.1	380.5	0.4	1.2
Lower Great Southern	552.1	1 690.3	0.2	0.7
Upper Great Southern	476.3	1 617.8	0.1	0.1
Midlands	1 010.5	1 709.3	0.1	0.1
South Eastern	275.0	779.0	0.1	0.2
Central	392.2	870.3	0.1	—
Pilbara	11.4	38.8	—	—
Kimberley	—	—	0.2	—
Western Australia				
1997	2 961.8	7 106.3	1.7	2.6
1996	2 750.2	6 981.9	0.9	4.2

	Units	1995	1996	1997
Number of livestock slaughtered(a)(b)				
Cattle	'000	429.0	426.6	406.8
Calves	'000	4.2	2.8	5.6
Chickens	'000	33 683.9	34 631.1	36 360.2
Sheep	'000	2 532.3	2 360.0	2 635.2
Lambs	'000	1 370.9	1 184.6	2 081.2
Pigs	'000	582.3	593.4	550.2
Meat produced(a)(c)				
Beef	tonnes	97 045	96 567	91 369
Veal	tonnes	277	186	319
Chicken	tonnes	41 658	43 514	46 789
Lamb	tonnes	21 144	19 408	35 701
Mutton	tonnes	50 669	43 808	52 164
Pig	tonnes	34 688	37 484	38 837
Whole milk intake by factories(d)	million litres	345	343	349
Wool(e)				
Brokers and dealer receivals of taxable wool	tonnes	175 697.9	161 018.1	159 981.0
Eggs produced	million dozen	19.9	18.8	15.7

(a) Source: ABS "Monthly Livestock Products" publication, Catalogue No. 7215.0.

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

(c) Dressed carcass weight, excluding offal.

(d) Source: Australian Dairy Corporation.

(e) Sources: National Council of Wool Selling Brokers of Australia and ABS Wool Brokers and Dealers Collection.

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GROSS VALUE OF LIVESTOCK PRODUCTS AND OTHER DISPOSALS

	1994-95	1995-96 ^r	1996-97 ^p
	\$m	\$m	\$m
Livestock slaughterings(a)			
Cattle and calves	295.7	283.4	282.1
Pigs	75.2	68.8	73.5
Poultry	78.8	83.0	89.4
Sheep and lambs(b)	173.1	247.0	237.1
Other	1.4	1.9	3.0
Total	624.2	684.1	685.1
Wool			
Shorn and crutched	795.0	603.5	559.5
Other(c)	16.2	13.1	15.0
Total	811.2	616.6	574.6
Production of milk			
Human consumption	93.1	96.5	103.8
Manufacturing	33.1	30.7	38.8
Total	126.2	127.2	142.6
Eggs	31.6	35.8	29.3
Honey and beeswax	2.0	3.1	2.8

(a) Includes net exports of livestock.

(b) Excludes value of wool on skins.

(c) Includes dead and fellmongered wool and wool on skins.

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BEEKEEPING, SUMMARY STATISTICS, Years ended 30 June

	Units	1995	1996	1997 ^p
Apiarists	no.	70	67	66
Beehives				
Productive(a)	no.	19 919	27 228	23 522
Unproductive	no.	7 727	3 695	3 262
Total	no.	27 646	30 923	26 784
Honey produced				
Quantity	kg	1 768 264	2 071 564	1 729 032
Average production(b)	kg/hive	88.8	76.1	73.5
Beeswax produced	kg	35 136	50 114	39 613

(a) Beehives from which honey was taken.

(b) Average production per productive beehive.

Items	FRUIT 0114-0119				VEGETABLES 0113			
	1994-95		1995-96		1994-95		1995-96	
	\$m	SE %	\$m	SE %	\$m	SE %	\$m	SE %
Sales from crops	80.8	20	69.9	32	188.7	46	227.4	25
Sales from livestock	1.9	65	0.8	47	3.0	*	2.9	*
Sales from livestock products	3.0	52	1.2	88	0.2	*	0.2	*
Turnover	94.0	19	76.4	30	207.5	41	254.8	24
Purchases and selected expenses	52.6	19	43.1	29	75.0	21	120.5	20
Value added(a)	38.7	28	33.5	39	132.3	61	133.8	31
Adjusted value added(a)	32.4	33	29.7	42	128.1	63	124.7	33
Gross operating surplus(a)	22.3	41	20.2	49	108.6	69	89.4	39
Interest paid	5.6	22	5.3	38	2.1	57	4.9	35
Cash operating surplus(b)	19.9	35	14.9	65	106.4	71	85.7	40
Gross indebtedness	50.9	21	61.5	38	25.7	65	73.4	29
Total net capital expenditure	6.0	29	7.5	31	14.2	42	15.8	47

Items	GRAIN 0121				GRAIN-SHEEP/BEEF CATTLE 0122			
	1994-95		1995-96		1994-95		1995-96	
	\$m	SE %	\$m	SE %	\$m	SE %	\$m	SE %
Sales from crops	811.0	9	1 440.9	7	780.1	10	833.6	11
Sales from livestock	77.7	26	91.2	14	154.6	13	147.0	13
Sales from livestock products	114.7	15	124.0	15	374.7	9	251.3	12
Turnover	1 045.6	9	1 750.9	8	1 373.2	9	1 291.2	10
Purchases and selected expenses	630.8	9	951.2	8	808.7	9	731.7	10
Value added(a)	420.8	10	842.4	8	561.3	10	627.2	12
Adjusted value added(a)	362.8	10	757.2	8	483.6	11	566.0	12
Gross operating surplus(a)	308.6	10	689.2	8	426.3	11	492.4	13
Interest paid	59.2	14	93.6	17	108.8	22	64.1	15
Cash operating surplus(b)	255.3	12	577.4	9	329.5	13	369.9	15
Gross indebtedness	811.1	16	1 124.9	14	1 253.0	17	987.7	14
Total net capital expenditure	107.7	18	328.0	12	186.6	17	139.6	18

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

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

NOTE: Standard error of change between two successive years is 1.3 times the standard error of the estimate (except for the all industries estimate where it is equal to the standard error of the estimate). Standard error of change between estimates two years apart could be as high as 1.8 times the standard error of the estimate (except for the all industries estimate where it could be 1.5 times the standard error of the estimate).

Items	SHEEP-BEEF CATTLE 0123				SHEEP 0124			
	1994-95		1995-96		1994-95		1995-96	
	\$m	%	\$m	%	\$m	%	\$m	%
Sales from crops	1.7	52	2.1	46	16.1	54	61.4	53
Sales from livestock	62.5	18	43.3	29	39.7	29	68.6	28
Sales from livestock products	35.7	17	30.2	24	113.3	23	135.1	24
Turnover	105.3	14	81.9	22	183.7	21	309.7	27
Purchases and selected expenses	69.6	16	51.5	24	101.2	25	174.9	26
Value added(a)	50.7	21	45.5	20	83.2	21	173.2	28
Adjusted value added(a)	42.7	24	39.5	21	71.6	22	151.1	28
Gross operating surplus(a)	34.1	23	34.9	23	59.5	24	131.1	29
Interest paid	7.3	45	5.2	33	8.7	44	21.8	33
Cash operating surplus(b)	11.1	42	19.7	55	57.5	28	80.4	35
Gross indebtedness	129.7	37	81.5	22	126.1	33	319.8	31
Total net capital expenditure	3.9	26	4.6	60	12.6	45	18.6	31

Items	BEEF CATTLE 0125				DAIRY CATTLE 0130			
	1994-95		1995-96		1994-95		1995-96	
	\$m	%	\$m	%	\$m	%	\$m	%
Sales from crops	6.1	56	9.8	55	8.0	*	0.1	*
Sales from livestock	147.6	17	162.0	10	33.6	26	41.2	44
Sales from livestock products	0.8	51	2.5	37	108.6	19	104.7	16
Turnover	183.0	19	218.4	11	154.8	10	151.5	10
Purchases and selected expenses	93.5	25	125.1	13	91.9	17	76.3	16
Value added(a)	208.7	14	-1.0	**	74.6	11	72.9	19
Adjusted value added(a)	192.9	14	-27.7	44	68.4	12	65.9	21
Gross operating surplus(a)	172.5	15	-46.2	28	59.9	12	60.9	23
Interest paid	8.6	36	18.9	45	12.4	25	12.9	23
Cash operating surplus(b)	48.8	31	44.2	36	35.4	24	51.1	31
Gross indebtedness	267.1	24	430.0	16	146.8	23	118.7	21
Total net capital expenditure	19.9	59	17.5	21	17.1	66	5.8	41

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

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

NOTE: Standard error of change between two successive years is 1.3 times the standard error of the estimate (except for the all industries estimate where it is equal to the standard error of the estimate). Standard error of change between estimates two years apart could be as high as 1.8 times the standard error of the estimate (except for the all industries estimate where it could be 1.5 times the standard error of the estimate).

Items	PIGS 0151				OTHER AGRICULTURE 0111-0112, 0141-0142, 0152-0159, 0169.....			
	1994-95	SE	1995-96	SE	1994-95	SE	1995-96	SE
	\$m	%	\$m	%	\$m	%	\$m	%
Sales from crops	0.1	*	0.4	14	45.1	29	109.3	47
Sales from livestock	45.4	10	42.9	15	8.5	17	18.1	34
Sales from livestock products	3.2	57	1.3	62	52.3	22	58.0	13
Turnover	50.8	10	45.8	16	131.9	12	213.7	25
Purchases and selected expenses	36.0	13	32.2	17	74.5	15	110.4	23
Value added(a)	15.6	9	12.3	19	54.6	16	104.0	29
Adjusted value added(a)	13.0	11	11.0	21	43.7	19	89.5	30
Gross operating surplus(a)	8.7	21	7.7	37	9.9	90	32.8	36
Interest paid	2.1	49	0.9	38	6.6	25	9.8	28
Cash operating surplus(b)	6.1	36	8.2	33	5.8	**	25.0	46
Gross indebtedness	30.8	34	12.0	29	146.3	29	276.4	26
Total net capital expenditure	5.3	44	2.2	40	9.3	27	18.1	34

AGRICULTURE ALL INDUSTRIES

Items	1994-95	SE	1995-96	SE
	\$m	%	\$m	%
	Sales from crops	1 937.5	6	2 754.8
Sales from livestock	574.6	6	618.0	6
Sales from livestock products	806.5	5	708.4	6
Turnover	3 529.9	4	4 394.3	3
Purchases and selected expenses	2 033.8	4	2 417.0	3
Value added(a)	1 640.6	6	2 043.8	4
Adjusted value added(a)	1 439.2	7	1 806.9	5
Gross operating surplus(a)	1 210.5	8	1 512.3	5
Interest paid	221.3	11	237.4	8
Cash operating surplus(b)	875.7	10	1 276.5	6
Gross indebtedness	2 987.6	8	3 485.7	6
Total net capital expenditure	382.6	10	557.7	7

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

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

NOTE: Standard error of change between two successive years is 1.3 times the standard error of the estimate (except for the all industries estimate where it is equal to the standard error of the estimate). Standard error of change between estimates two years apart could be as high as 1.8 times the standard error of the estimate (except for the all industries estimate where it could be 1.5 times the standard error of the estimate).

AGGREGATES

Items	1991-92	SE	1992-93	SE	1993-94	SE
	\$m	%	\$m	%	\$m	%
Sales from crops	1 353.5	3	1 577.7	3	1 738.0	5
Sales from livestock	343.0	8	462.8	6	577.1	8
Sales from livestock products	737.8	4	690.8	4	725.6	6
Turnover	2 560.3	2	2 875.8	2	3 180.9	3
Purchases and selected expenses	1 620.3	3	1 710.5	3	1 885.7	3
Value added(a)	1 193.5	3	1 188.9	4	1 706.6	4
Adjusted value added(a)	1 000.5	3	1 006.4	5	1 514.4	4
Gross operating surplus(a)	802.6	4	801.2	6	1 279.2	5
Interest paid	215.9	9	190.8	7	178.7	8
Cash operating surplus(b)	353.2	13	618.5	6	720.3	7
Gross indebtedness	1 919.7	7	2 192.5	8	2 459.3	7
Total net capital expenditure	230.1	11	279.3	10	360.7	8

AGGREGATES

Items	1994-95	SE	1995-96	SE	1996-97p	SE
	\$m	%	\$m	%	\$m	%
Sales from crops	1 937.5	6	2 754.8	4	2 406.0	4
Sales from livestock	574.6	6	618.0	6	615.5	6
Sales from livestock products	806.5	5	708.4	6	731.6	9
Turnover	3 529.9	4	4 394.3	3	4 160.3	3
Purchases and selected expenses	2 033.8	4	2 417.0	3	2 451.4	3
Value added(a)	1 640.6	6	2 043.8	4	1 422.4	6
Adjusted value added(a)	1 439.2	7	1 806.9	5	1 179.9	7
Gross operating surplus(a)	1 210.5	8	1 512.3	5	907.2	8
Interest paid	221.3	11	237.4	8	230.4	8
Cash operating surplus(b)	875.7	10	1 276.5	6	1 013.9	7
Gross indebtedness	2 987.6	8	3 485.7	6	2 886.3	8
Total net capital expenditure	382.6	10	557.7	7	445.2	11

AVERAGES

Items	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97p
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Sales from crops	119.3	141.7	158.4	177.5	253.4	220.3
Sales from livestock	30.2	41.6	52.6	52.7	56.8	56.4
Sales from livestock products	65.0	62.0	66.1	73.9	65.2	67.0
Turnover	225.7	258.2	289.9	323.4	404.1	380.9
Purchases and selected expenses	142.8	153.6	171.9	186.3	222.3	224.4
Value added(a)	105.2	106.8	155.6	150.3	188.0	130.2
Adjusted value added(a)	88.2	90.4	138.0	131.9	166.2	108.0
Gross operating surplus(a)	70.7	71.9	116.6	110.9	139.1	83.1
Interest paid	19.0	17.1	16.3	20.3	21.8	21.1
Cash operating surplus(b)	31.1	55.5	65.7	80.2	117.4	92.8
Gross indebtedness	169.2	196.6	224.2	273.7	320.6	264.3
Total net capital expenditure	20.3	25.1	32.9	35.1	51.3	40.8

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

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

NOTE: Standard error of change between two successive years is 1.3 times the standard error of the estimate (except for the all industries estimate where it is equal to the standard error of the estimate). Standard error of change between estimates two years apart could be as high as 1.8 times the standard error of the estimate (except for the all industries estimate where it could be 1.5 times the standard error of the estimate).

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains statistics on crops, livestock and livestock products and characteristics of farms; it includes some summary information on the financial performance of agricultural industries and the value of agricultural commodities produced.

SCOPE AND COVERAGE

2 The statistics on crops (including horticulture), livestock numbers, structure of agricultural industries, land management and farm inputs are derived from the annual agricultural census conducted throughout Australia at 31 March, which collects data from establishments with agricultural activity.

3 Establishments which make only a small contribution to overall agricultural production are excluded from the scope of the census. Information is collected from establishments when their estimated value of agricultural operations (EVAO) is above a certain level. These levels have varied in past agricultural censuses, as follows:

- 1993–94 to present EVAO \$5,000 and over;
- 1991–92 to 1992–93 EVAO \$22,500 and over;
- 1986–87 to 1990–91 EVAO \$20,000 and over; and
- before 1986–87 EVAO \$2,500 and over.

4 Tables 1 and 3 show the number of agricultural establishments having an EVAO of \$5,000 and over according to the population frame selected for the agricultural census. Once data on these units are collected and processed a small number of them are found to have an EVAO of less than \$5,000. These are shown in the first column in table 5. Some units are found to have an EVAO of zero; these are shown as 'unclassified' in tables 1, 5 and 6.

5 The effect of the lower EVAO cut off of \$5,000 and over from 1993–94 onwards is to include smaller agricultural establishments that have been excluded in previous years. However, because of their small size they are not expected to change greatly the overall commodity totals. Nevertheless, the changes in scope between years mean that care must be taken in comparing census results over time.

6 Information covering commodities such as livestock slaughterings, dairy produce and beekeeping is obtained from separate ABS collections and from organisations such as the Australian Dairy Corporation.

REFERENCE PERIOD

7 Statistics about crops, pastures, vegetables and fruit relate, in general, to the season ended 31 March. Where harvesting was not completed by 31 March 1997 (for example, maize, rice, apples, grapes and late planted potatoes), the production statistics relate to the completed harvest.

ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY

8 An establishment with agricultural activity is a single physical location which is used for the production of crops (including fruit and vegetables) and/or for the raising of livestock and the production of livestock products.

INDUSTRY AND SIZE CLASSIFICATION

9 Establishments in the agricultural sector were classified in accordance with the methodology described in the 1993 *Australian and New Zealand Standard Industrial Classification (ANZSIC)* (1292.0).

10 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* (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.

11 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.

12 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 estimated value of agricultural operations (EVAO). It should be noted that EVAO is applicable *only for industry coding and size valuation purposes*. It is not an indicator of receipts obtained by units or of the value of agricultural commodities produced by these units.

DEFINITIONS OF TERMS USED

13 The following are definitions of terms used in the tables of this publication:

- *agricultural establishment* is an establishment which is engaged *mainly* in agricultural activities; and
- *establishment with agricultural activity* is a land-based establishment which is engaged in agricultural activity, regardless of the unit's predominant activity.

CROPS, PASTURES AND HORTICULTURE

14 Statistics of areas 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.

EXPLANATORY NOTES *continued*

LIVESTOCK SLAUGHTERING AND LIVESTOCK PRODUCTS

15 The statistics on 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. Also, definitions of livestock categories may differ between States and within States, particularly with regard to calves.

WOOL

16 Wool receivals statistics show the amount of taxable wool received by brokers and dealers from wool producers. They exclude 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 received and does not necessarily reflect the production of wool in that State.

17 The wool estimates contained in table 45 are obtained from these major sources:

- (i) A monthly collection of National Council of Wool Selling Brokers of Australia in each State and incorporated in this publication with reference to the twelve months to 30 June. The data are compiled in terms of bales received into stores and converted to wool receivals in tonnes.
- (ii) A monthly ABS collection of other wool brokers and dealers in each State, also incorporated with reference to the twelve months to 30 June. Data are reported in tonnes, or converted to tonnes as required.

MILK

18 These statistics have been collected by the Australian Dairy Corporation (ADC).

POULTRY

19 Poultry slaughtering statistics have been compiled from returns supplied by commercial poultry slaughtering establishments.

BEEKEEPING

20 Beekeepers are included in this collection if they have a minimum EVAO of \$5,000, whether for beekeeping alone or in conjunction with other agricultural activities.

AGRICULTURAL FINANCE SURVEY

21 The financial estimates in this publication have been derived from estimates from the Agricultural Finance Survey (AFS). The survey aims to meet demands of users who require annual financial statistics on a consistent basis across all agricultural industries in each State and Australia.

22 More detailed information including an outline of the reliability of the estimates and their standard errors is published in *Agricultural Industries Financial Statistics, Australia* (7507.0).

EXPLANATORY NOTES *continued*

SCOPE AND COVERAGE OF THE AFS

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

VALUE OF AGRICULTURAL COMMODITIES PRODUCED

24 This publication contains summary information on the value of agricultural commodities produced (VACP) compiled annually for all States and Australia. The summary information contains gross values of production for selected agricultural commodities. More detailed information is available in *Value of Agricultural Commodities Produced, Australia* (7503.0).

SCOPE AND COVERAGE OF VACP STATISTICS

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

PRICE AND MARKETING COSTS DATA

26 The method of collection of relevant prices for, and the costs of marketing of agricultural commodities vary 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 Ltd, 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.

DEFINITION OF GROSS VALUE

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

OTHER FORMS OF RELEASE

28 The ABS also has more detailed agricultural statistics on microfiche and floppy disk. AgStats on floppy disk offers a wider range of data aggregated at smaller geographic areas than those generally available in printed publications, together with an easy-to-use interrogation facility.

29 Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

UNPUBLISHED STATISTICS

30 As well as the statistics in this and related publications, the ABS may have other unpublished data available. Inquiries should be directed to Pam Prince on (08) 9360 5207.

31 The figures shown in this publication have been revised where necessary and as a consequence may not agree with similar data shown in previous publications.

32 Where the figures have been rounded, discrepancies may occur between sums of the component items and totals.

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