

# AGRICULTURE

VICTORIA

EMBARGO: 11:30AM (CANBERRA TIME) WED 5 AUG 1998

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- For further information about these and related statistics, contact Moira Darling on Melbourne (03) 9615 7062, or any ABS office shown on the back cover of this publication.



## NOTES

### SYMBOLS AND OTHER USAGES

ha	hectares
kg	kilograms
km	kilometres
n.a.	not available
n.c.	not collected
n.e.c.	not elsewhere classified
n.p.	not published
n.y.a.	not yet available
p	preliminary
r	figure or series revised since previous issue
SE%	percentage standard error
t	tonnes
*	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

### INQUIRIES

For further information about statistics in this publication and the availability of related unpublished statistics, contact Moira Darling on Melbourne (03) 9615 7062 or any ABS State office.

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

Zia Abbasi  
Regional Director, Victoria

# SUMMARY OF FINDINGS

## INTRODUCTION

The 1996–97 year showed average seasonal conditions for the State. The Wimmera and Mallee Statistical Divisions (SD), the principal grain growing regions, experienced good conditions. The average wheat yield in Wimmera SD was 2.9 t/ha in 1996–97, a small increase compared with 2.6 t/ha in 1995–96. Average yields in Mallee SD were 2.0 t/ha in 1996–97 compared to a 1995–96 average of 1.9 t/ha. The dairy industry continued to perform soundly. Prices for meat cattle weakened during the year. The sheep industry during 1996–97 experienced a continued downward trend in wool prices. The bright side for the sheep industry was strong prices for the prime lamb sector.

## STRUCTURE OF AGRICULTURAL INDUSTRY

The number of establishments with agricultural activity declined from 36,904 at 31 March 1996 to 36,656 at 31 March 1997. The total at 31 March 1997 included 322 establishments with agricultural activity, but whose main activity was in some other industry, and 275 establishments which were not classified to any industry as they had no economic activity.

Agricultural establishments are given an industry code according to their predominant activity. Therefore, figures showing agricultural establishments by industry in Victoria need to be treated with caution because of the relatively high level of mixed farming. Taking this into account, the main industries of the agricultural establishments were:

	Number	% of establishments with agricultural activity
Dairy cattle	8 064	22.0
Beef cattle farming	7 766	21.2
Sheep farming	4 749	13.0

The number of establishments classified to grain-sheep/beef cattle farming increased 15.7% (from 2,860 to 3,308). Declines were recorded in the sheep/beef cattle (9.4%) and beef cattle industries (4.8%). The grape growing industry showed a steady increase in establishments from 1,733 to 1,901 an increase of 9.7%.

At 31 March 1997, only 4.2% of establishments with agricultural activity had an estimated value of agricultural operations (EVAO) of \$500,000 or more. The grain growing industry accounted for 21.7% of these establishments. In contrast, some 33.5% of establishments had an EVAO between \$5,000 and \$49,999. The number of beef establishments with an EVAO of less than \$22,500 accounted for 52.7% of all beef establishments. The number of beef establishments with an EVAO of less than \$100,000 accounted for 93.4% of all beef establishments. In contrast 81.3% of dairy establishments had an EVAO of \$100,000 or greater.

In terms of area, 86 establishments had an area of 5,000 hectares or more at 31 March 1997; most were in the grain growing and sheep-beef cattle farming industries. Establishments with an area between 100 and 499 hectares accounted for 43.7% of all establishments.

At 31 March 1997, establishments with agricultural activity occupied 12,745,400 hectares, or 56.0% of Victoria's total area. The area of cereal crops was 1,888,600 hectares, 14.8% of the total area of holding of establishments with agricultural activity (see table 7).

## SUMMARY OF FINDINGS *continued*

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### LAND MANAGEMENT

In 1996–97, cultivation of broadacre crops showed an increase of 17.3% in hectares prepared using only one or two cultivations. No cultivation, indicating direct drilling, increased by 14.5% from 259,100 hectares in 1995–96 to 296,700 hectares in 1996–97 (see table 9).

A total of 4.8 million trees were planted from seedlings during the 1996–97 season. The Western District SD accounted for 35.0% of these trees (see table 10).

Fallow land preparation for crops accounted for 772,900 hectares, of this area 50.8% was prepared using chemical preparation. The remaining fallow land was prepared using cultivation techniques only (see table 12).

### CROPS AND PASTURES

In terms of area, the two main cereal crops grown were wheat and barley. The major crop growing regions were the Wimmera and Mallee SD's.

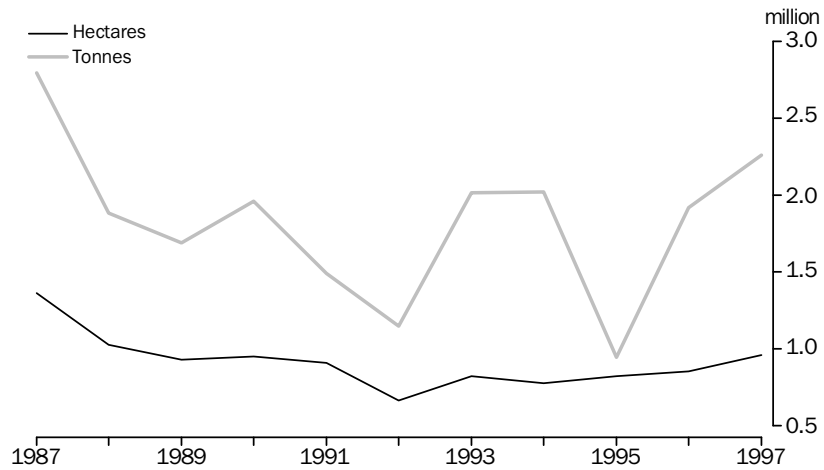
#### WHEAT

In 1996–97, the area of wheat grown was 962,600 ha for a total production of 2,262,300 tonnes. The area of wheat grown was 12.8% more than in 1995–96 while production increased by 17.8%. The average yield in 1996–97 was 2.4 t/ha. In terms of area, the principal wheat growing region was the Mallee SD. It accounted for 46.0% of the total area planted in Victoria to wheat and 38.3% of total wheat production. The Wimmera SD grew 34.8% of the area planted to wheat and produced 42.2% of the State's wheat crop (see table 14). The 1996–97 wheat production total of 2,262,300 tonnes was the largest since 1987 when 2,794,600 tonnes were produced.

## SUMMARY OF FINDINGS *continued*

In 1996–97, wheat was grown on 6,323 farm establishments, with more than half growing less than 100 hectares. Only 271 (4.3%) establishments grew wheat crops of 500 ha or more. These establishments accounted for 22.1% of the area of wheat grown and 18.4% of the wheat produced (see table 20). At 31 March 1997, there were 235,800 tonnes of wheat held in storage on holdings (see table 22).

### WHEAT, YEARS ENDED 31 MARCH



### BARLEY

The area sown to barley in 1996–97 was 584,700 ha, 6.8% less than in 1995–96. Production was 1,189,400 tonnes, 11.4% less than in 1995–96. The Mallee SD grew 50.1% of the area and produced 45.4% of the barley crop. The other main region was the Wimmera SD which grew 36.5% of the barley area and produced 42.1% of the crop. Most barley growers (56.1%) planted less than 100 ha (see table 20). At 31 March 1997, there was 197,500 tonnes of barley held in storage on holdings (see table 22).

### BARLEY, YEARS ENDED 31 MARCH

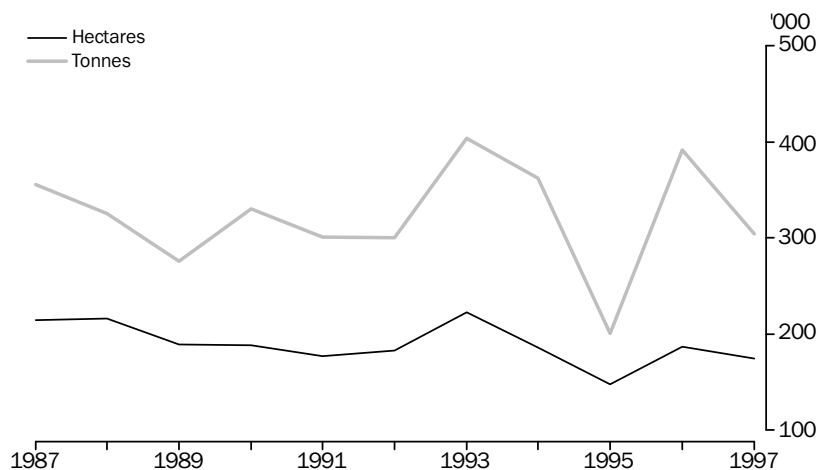


## SUMMARY OF FINDINGS *continued*

### OATS

Oats for grain were grown on 174,600 ha in 1996–97 for a total production of 304,000 tonnes. The area was down 6.6% and production was down by 22.4% on 1995–96. The Wimmera SD accounted for 27.6% of area and 25.0% of production (see table 14). At 31 March 1997, there were 159,600 tonnes of oats held in storage on holdings (see table 22).

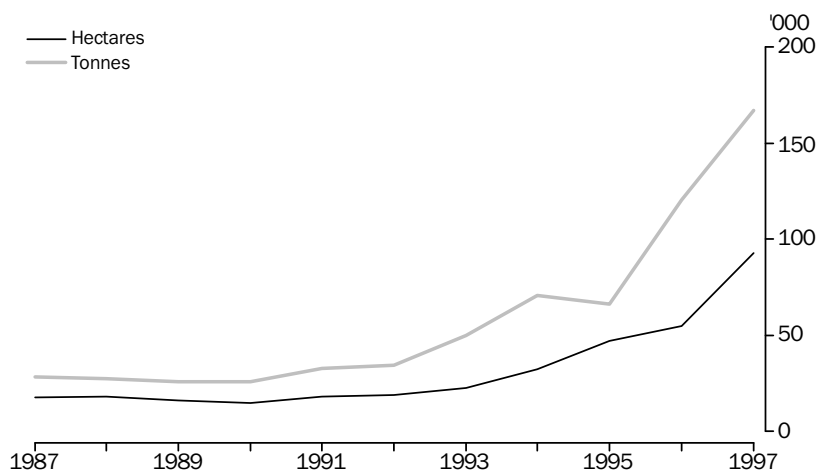
OATS, YEARS ENDED 31 MARCH



### TRITICALE

Triticale continued to increase in popularity as a broadacre crop, with 1,271 farm establishments growing it in 1996–97 compared with 951 the previous year and 912 in 1994–95. The area sown to triticale for grain increased from 54,800 ha in 1995–96 to 93,000 ha in 1996–97, an increase of 69.7%. Mallee, Goulburn and Wimmera were the principal SDs in which triticale was grown. Production in 1996–97 was 167,200 tonnes, an increase of 38.8% on 1995–96 (see table 14). Area planted to triticale and production have steadily trended upwards since 1992.

TRITICALE, YEARS ENDED 31 MARCH



## SUMMARY OF FINDINGS *continued*

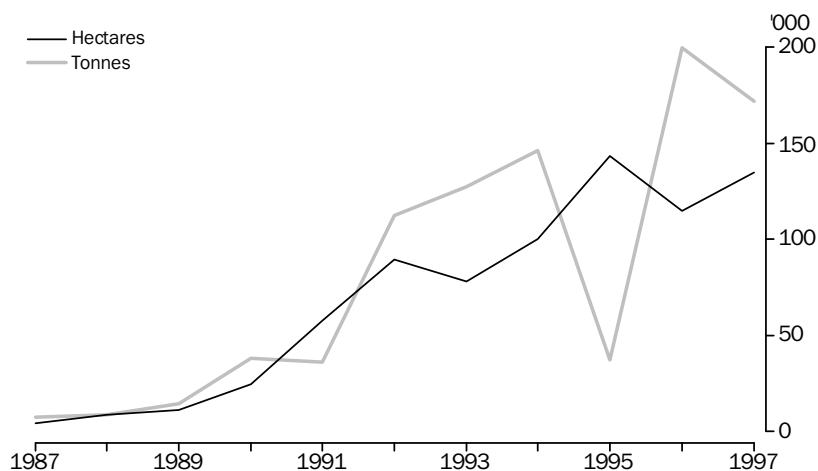
### OTHER FIELD CROPS

In 1996–97, the area sown to both field and chick peas was slightly up on 1995–96. The area of field peas sown was 173,900 ha, 1.2% greater than in 1995–96. However, production of 213,300 tonnes was 18.0% less than in 1995–96. The area of chick peas in 1996–97 was 135,000 ha, 17.4% greater than in 1995–96. Production of 171,900 tonnes was 13.9% less than in 1995–96 (see table 15).

#### FIELD PEAS, YEARS ENDED 31 MARCH



#### CHICK PEAS, YEARS ENDED 31 MARCH





## SUMMARY OF FINDINGS *continued*

### OILSEEDS

The main oilseed crop grown in Victoria was canola, with 92,200 ha grown in 1996–97, up by 21.0% from 1995–96. Canola production increased from 119,600 tonnes to 131,600 tonnes, an increase of 10.0%. Other main oilseed crops in 1996–97 were safflower (18,000 ha for 8,800 tonnes), soybeans (1,800 ha for 4,000 tonnes), and sunflowers (1,400 ha for 1,700 tonnes). Wimmera SD was the principal area for growing oilseed crops; it accounted for 57.1% of the total oilseed crop area with a total of 64,800 ha grown (see table 17).

#### CANOLA, YEARS ENDED 31 MARCH



### HORTICULTURE

#### APPLES

At 31 March 1997, there were 2.6 million apple trees in Victoria, comprising 1.1 million trees under six years and 1.5 million trees six years and over, an increase of 18.7% on the total number of trees at the end of 1995–96. The total apple production in 1996–97 was a record 119,000 tonnes, 50.6% above the amount produced in 1995–96. The Goulburn SD accounted for 34.5% and Melbourne SD 30.3% of total apple trees in Victoria. Goulburn SD produced 47.5% of the Victorian apple crop and Melbourne SD produced 24.9% (see table 23).

#### APPLE PRODUCTION, YEARS ENDED 31 MARCH



## SUMMARY OF FINDINGS *continued*

### PEARS

During the 1996–97 season, total pear production increased 8.0% to 146,100 tonnes, the highest production total since 1991–92 when 154,700 tonnes were picked. Total tree numbers increased to 1.2 million (up 3.7%). The major SD in terms of tree numbers and production was Goulburn, accounting for 96.5% of the State's production (see table 23).

#### PEAR PRODUCTION, YEARS ENDED 31 MARCH



### CITRUS FRUIT

Oranges, mandarins and lemons were the principal citrus fruit crops grown in Victoria. At the end of 1996–97, the number of mandarin trees in Victoria was 147,800, of which 99.5% were in the Mallee SD. The total number of orange trees was 1.4 million, with the Mallee SD accounting for 91.8% of these trees. Mandarin production in 1996–97 was 5,320 tonnes, an increase of 7.2% on 1995–96 production. Lemon and lime production increased by 31.9% in 1996–97 to 6,371 tonnes and the number of trees increased by 11.5% to 131,800. Orange production was 89,000 tonnes, up 22.9% on 1995–96 production (see table 23).

### STONE FRUIT

Peaches were the main stone fruit crop grown in Victoria. At 31 March 1997, there were 1.2 million trees of which 75.3% were in the Goulburn SD. Peach production in 1996–97 was 43,500 tonnes an increase of 19.6% on 1995–96 production (see table 24).

Olives are an emerging stone fruit in Victoria. In 1996–97 there were 59,700 olive trees and production was 240 tonnes (see table 24).

## SUMMARY OF FINDINGS *continued*

### PEACH PRODUCTION, YEARS ENDED 31 MARCH



### OTHER FRUIT AND NUTS

At 31 March 1997, there were 431,200 almond trees and 61,900 avocado trees in Victoria. Total almond production in 1996–97 was 3,700 tonnes, 28.3% above the amount produced in 1995–96. Avocado production was 1,800 tonnes, an increase of 79.5% on 1995–96 production. The Mallee SD accounted for 98.6% of total almond trees and 99.0% of total avocado trees in Victoria (see table 25).

### GRAPES

In the 1996–97 season, the grape industry in Victoria continued its strong expansion. The area of bearing vines at the end of 1996–97 was 21,338 ha, or 7.7% greater than the previous year. During 1996–97, there were an additional 1,602 ha of grapes planted or grafted. This was 9.0% less than in 1995–96 which was the highest level of new planting activity in recent years. Most new planting occurred in Mallee SD (1,033 ha, or 64.5% of total new planting). Total grape production during 1996–97 was 329,700 tonnes, a decrease of 22.7% on the 1995–96 year. Grapes for wine making accounted for 55.1% of total production and grapes for drying 32.4% of production. Production of grapes for drying was down 44.7% to 106,700 tonnes in 1996–97. Table grape production increased 19.5% in 1996–97 to 41,300 tonnes (see table 28).

### GRAPES, BEARING AREA, YEARS ENDED 31 MARCH



## SUMMARY OF FINDINGS *continued*

### VEGETABLES

The main vegetable crops grown in Victoria in terms of area are potatoes, tomatoes, carrots and broccoli. In 1996–97, the total area of potatoes grown was 11,352 hectares. Production was 315,727 tonnes, 5.9% lower than in 1995–96. The principal potato producing SDs in 1996–97 were Gippsland, 95,576 tonnes, and Central Highlands, 90,702 tonnes. Total tomato production during 1996–97, was 167,563 tonnes of which 71.0% were produced in the Goulburn SD and 27.3% in the Loddon SD. In 1996–97 the principal carrot growing area was Mallee SD with 49,900 tonnes or 50.3% of the State's total carrot production. Total broccoli production for Victoria in 1996–97 was 19,198 tonnes, of which Melbourne SD accounted for 10,594 tonnes, 55.2% of the State total (see table 29 and 30).

POTATO AREA, YEARS ENDED 31 MARCH



POTATO PRODUCTION, YEARS ENDED 31 MARCH



### CUT FLOWERS AND CULTIVATED TURF

The total area of cut flowers grown during 1996–97 was 2,048 hectares, 19.5% more than in 1995–96. In 1996–97, cultivated turf area was 352 hectares an increase of 15.1% from 1995–96.

## SUMMARY OF FINDINGS *continued*

### LIVESTOCK AND LIVESTOCK PRODUCTS

#### MEAT CATTLE

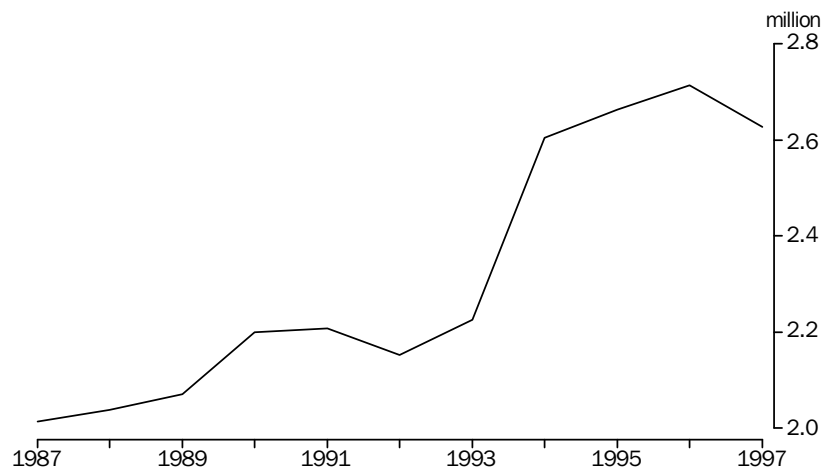
The meat cattle herd at 31 March 1997 was 2.6 million, down 3.2% on the previous year's herd. The total number of establishments with meat cattle decreased from 20,151 at 31 March 1996 to 19,716 at 31 March 1997.

The Western District SD accounted for 22.1% of the Victorian herd. Goulburn SD had 15.9% of the meat cattle herd, Gippsland SD 13.0% and East Gippsland SD 12.3% (see table 33).

Of the 19,716 establishments with meat cattle 7,435 (37.7%) had herd sizes of less than 50 cattle.

At the other end of the scale, 169 (0.9%) establishments had herd sizes of 1,000 or more and accounted for 11.5% of the meat cattle herd. The median meat cattle herd size at 31 March 1997 was 71 cattle (see table 35).

#### MEAT CATTLE, AT 31 MARCH



#### MILK CATTLE

The milk cattle herd increased 6.1% between 31 March 1996 and 31 March 1997 from 1.68 million to a record 1.78 million head. The number of establishments with milk cattle at 31 March 1997 was 8,585, an increase of 1.3% on 1995-96 (see tables 36 and 37).

The median milk cattle herd size at 31 March 1997 was 181 cattle, up from 175 the previous year. There were 4,370 (50.9%) establishments that had herds between 100 and 249 head. There were 408 (4.8%) establishments that had herds of 500 or more compared with 320 at 31 March 1996 (see table 38).

MILK CATTLE, AT 31 MARCH



SHEEP AND LAMBS

At 31 March 1997, the Victorian sheep flock was 22.3 million, an increase of 1.6% on the 1996 flock size. The number of establishments with sheep at 31 March 1997 was 14,327, a slight decrease on the previous year. In 1996–97, 28.7% of the sheep flock was in the Western District SD (see tables 39 and 40).

The number of establishments with flock sizes of 10,000 or more was 162 at 31 March 1997. While this was only 1.1% of all establishments with sheep and lambs, they accounted for 10.2% of the flock (see table 41).

During 1996–97, the number of lambs marked was 7.6 million, up from the 7.0 million marked during 1995–96. The marking ratio (lambs marked as a proportion of ewes mated) was 84.5%, 1.7 percentage points higher than the previous year. Expected matings for the 1997–98 year are 9.3 million, 4.7 million to merino rams (see table 42).

SHEEP AND LAMBS, AT 31 MARCH

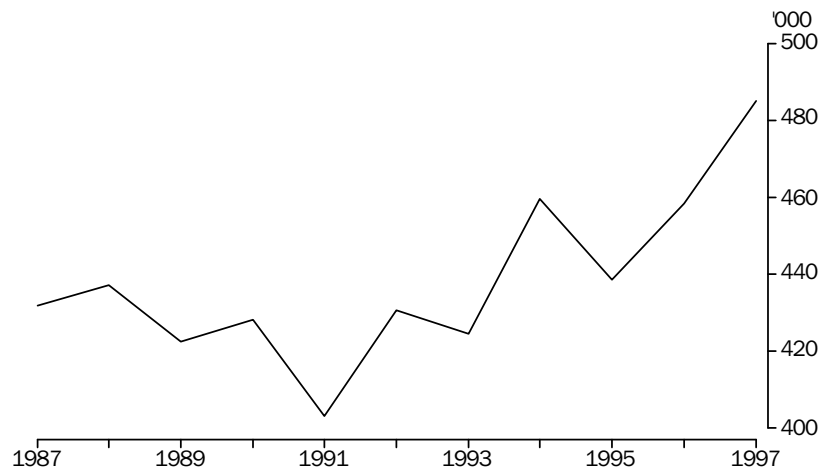


## SUMMARY OF FINDINGS *continued*

### PIGS

The pig herd at 31 March 1997 was a record 485,200, 5.8% higher than at 31 March 1996. The number of establishments with pigs at 31 March 1997 was 556, a decline of 9.3% from 1995–96. In 1996–97 there were 95 establishments (17.1%) with herds of 1,000 or more. These establishments accounted for 81.4% of the pig herd (see tables 43 and 44).

#### PIGS, AT 31 MARCH



### POULTRY

At 31 March 1997, there were 3.4 million hens for egg production on Victorian farming establishments and 13.4 million chickens for meat production. The number of meat chickens disposed of by poultry farms in 1996–97 was 141.3 million. The estimated number of turkeys disposed of from Victorian farms for the year ended 31 March 1997, was 281,000 while the number of ducks was 240,400 (see tables 45 and 46).

### VALUE OF AGRICULTURAL COMMODITIES PRODUCED

Wheat for grain in Victoria in 1996–97 was the leading individual crop in terms of value of production at \$484.9 million. This was a decrease of 3.8% from \$504.0 million in 1995–96. Wheat therefore remained the principal contributor to the value of cereal grain production, accounting for 60.1% of the total, followed by barley which contributed 30.0% of the total (see table 19).

The gross value of fruit production was \$609.7 million in 1996–97. Grapes remained the leading individual fruit in value terms at \$214.7 million, followed by apples with a value of production of \$124.4 million. Next highest was pears contributing \$87.1 million (see table 27).

The gross value of vegetables produced in 1996–97 was \$445.1 million, up 9.8% on the 1995–96 figure of \$405.4 million. Potatoes (\$123.5 million), carrots (\$61.2 million) and mushrooms (\$59.7 million) were the major contributors to the 1996–97 total (see table 31).

The gross value of livestock slaughtering increased slightly (3.2%) from the previous year to \$1,414.2 million. Cattle and calf slaughtering represented 46.8% of this value followed by sheep and lambs, poultry and pigs which represented 24.6%, 17.0% and 11.5% respectively (see table 50).

The gross value of wool production increased from the previous year to \$512.9 million, a rise of 6.3%. The value of milk production decreased by 7.1% to \$1,536.9 million. The value of eggs increased to \$57.8 million in 1996–97 (see table 50).





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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	284	287	318
0112	Cut flower and flower seed growing	184	209	233
0113	Vegetable growing	1 015	1 005	1 001
0114	Grape growing	1 645	1 733	1 901
0115	Apple and pear growing	448	431	427
0116	Stonefruit growing	251	256	245
0117	Kiwi fruit growing	13	9	8
0119	Fruit growing n.e.c.	382	375	386
0121	Grain growing	2 452	3 054	3 014
0122	Grain-sheep/beef cattle farming	2 939	2 860	3 308
0123	Sheep-beef cattle farming	3 178	3 084	2 795
0124	Sheep farming	5 017	4 691	4 749
0125	Beef cattle farming	8 367	8 155	7 766
0130	Dairy cattle farming	7 946	7 933	8 064
0141	Poultry farming (meat)	155	161	167
0142	Poultry farming (eggs)	118	110	118
0151	Pig farming	242	196	192
0152	Horse farming	330	333	401
0153	Deer farming	112	106	63
0159	Livestock farming n.e.c.	734	805	464
0169	Crop and plant growing n.e.c.	390	353	375
<b>Total (ANZSIC Code 01)</b>		<b>36 202</b>	<b>36 146</b>	<b>35 995</b>
02	Services to agriculture; hunting and trapping	40	53	61
03	Forestry and logging	1	1	2
04	Commercial fishing	—	1	1
<b>Total (ANZSIC Division A)</b>		<b>36 243</b>	<b>36 201</b>	<b>36 059</b>
All other ANZSIC Divisions		259	327	322
Unclassified		568	376	275
<b>Total all industries</b>		<b>37 070</b>	<b>36 904</b>	<b>36 656</b>

(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 74.

# 2

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

<i>Industry class</i>		1995	1996	1997
<i>ANZSIC code</i>	<i>Industry of establishment</i>	no.	no.	no.
0111	Plant nurseries	237	236	273
0112	Cut flower and flower seed growing	162	183	199
0113	Vegetable growing	955	939	930
0114	Grape growing	1 488	1 582	1 691
0115	Apple and pear growing	425	407	407
0116	Stonefruit growing	215	216	221
0117	Kiwi fruit growing	11	8	6
0119	Fruit growing n.e.c.	316	299	310
0121	Grain growing	2 296	2 962	2 908
0122	Grain-sheep/beef cattle farming	2 715	2 732	3 159
0123	Sheep-beef cattle farming	2 661	2 528	2 276
0124	Sheep farming	3 675	3 618	3 924
0125	Beef cattle farming	4 678	4 508	3 672
0130	Dairy cattle farming	7 823	7 818	7 944
0141	Poultry farming (meat)	153	155	164
0142	Poultry farming (eggs)	113	106	106
0151	Pig farming	230	185	179
0152	Horse farming	202	220	252
0153	Deer farming	104	99	24
0159	Livestock farming n.e.c.	486	584	273
0169	Crop and plant growing n.e.c.	318	276	305
<b>Total (ANZSIC Code 01)</b>		<b>29 263</b>	<b>29 661</b>	<b>29 223</b>
02	Services to agriculture; hunting and trapping	30	31	31
03	Forestry and logging	—	—	—
04	Commercial fishing	—	—	—
<b>Total (ANZSIC Division A)</b>		<b>29 293</b>	<b>29 692</b>	<b>29 254</b>
All other ANZSIC Divisions		179	206	189
Unclassified		—	—	—
<b>Total all industries</b>		<b>29 472</b>	<b>29 898</b>	<b>29 443</b>

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

	1995	1996	1997
<i>Statistical division</i>	no.	no.	no.
Melbourne	2 848	2 743	2 726
Barwon	1 874	2 027	1 954
Western District	5 190	5 148	5 126
Central Highlands	2 120	1 957	1 960
Wimmera	3 040	3 171	3 168
Mallee	4 146	4 498	4 596
Loddon	3 541	2 315	2 268
Goulburn	5 688	6 559	6 494
Ovens-Murray	2 450	2 330	2 309
East Gippsland	1 628	2 534	2 475
Gippsland	4 545	3 622	3 580
<b>Victoria</b>	<b>37 070</b>	<b>36 904</b>	<b>36 656</b>

(a) See explanatory note 4 on page 74.

(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.
Melbourne	1 956	1 920	1 799
Barwon	1 394	1 528	1 433
Western District	4 418	4 470	4 397
Central Highlands	1 582	1 493	1 521
Wimmera	2 643	2 855	2 916
Mallee	3 683	4 074	4 189
Loddon	2 688	1 733	1 733
Goulburn	4 481	5 268	5 208
Ovens-Murray	1 789	1 703	1 640
East Gippsland	1 245	1 996	1 877
Gippsland	3 593	2 858	2 730
<b>Victoria</b>	<b>29 472</b>	<b>29 898</b>	<b>29 443</b>

(a) Figures are at 31 March.

# 5

## 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	1	44	42	73
0112	Cut flower and flower seed growing	4	30	39	61
0113	Vegetable growing	12	59	76	145
0114	Grape growing	10	200	477	669
0115	Apple and pear growing	2	18	25	44
0116	Stonefruit growing	2	22	45	55
0117	Kiwi fruit growing	—	2	1	3
0119	Fruit growing n.e.c.	14	62	57	70
0121	Grain growing	9	97	244	423
0122	Grain-sheep/beef cattle farming	3	146	435	830
0123	Sheep-beef cattle farming	26	493	674	725
0124	Sheep farming	70	755	1 043	1 266
0125	Beef cattle farming	381	3 713	2 113	1 048
0130	Dairy cattle farming	11	109	343	1 046
0141	Poultry farming (meat)	—	3	5	7
0142	Poultry farming (eggs)	1	11	4	13
0151	Pig farming	3	10	19	15
0152	Horse farming	21	128	111	86
0153	Deer farming	13	26	15	9
0159	Livestock farming n.e.c.	38	153	118	81
0169	Crop and plant growing n.e.c.	23	47	53	65
<b>Total (ANZSIC Code 01)</b>		<b>644</b>	<b>6 128</b>	<b>5 939</b>	<b>6 734</b>
02	Services to agriculture; hunting and trapping	7	23	17	8
03	Forestry and logging	1	1	—	—
04	Commercial fishing	—	1	—	—
<b>Total (ANZSIC Division A)</b>		<b>652</b>	<b>6 153</b>	<b>5 956</b>	<b>6 742</b>
All other ANZSIC Divisions		19	114	69	54
Unclassified		275	—	—	—
<b>Total all industries</b>		<b>946</b>	<b>6 267</b>	<b>6 025</b>	<b>6 796</b>

(a) See explanatory note 4 on page 74.

## ESTIMATED VALUE OF AGRICULTURAL OPERATIONS (\$)

Industry class		100,000 to 199,999	200,000 to 499,999	500,000 or more	Total establishments
ANZSIC code	Industry of establishment	no.	no.	no.	no.
0111	Plant nurseries	70	55	33	318
0112	Cut flower and flower seed growing	40	39	20	233
0113	Vegetable growing	212	286	211	1 001
0114	Grape growing	363	148	34	1 901
0115	Apple and pear growing	98	124	116	427
0116	Stonefruit growing	55	46	20	245
0117	Kiwi fruit growing	—	1	1	8
0119	Fruit growing n.e.c.	66	73	44	386
0121	Grain growing	722	1 182	337	3 014
0122	Grain-sheep/beef cattle farming	1 035	747	112	3 308
0123	Sheep-beef cattle farming	540	286	51	2 795
0124	Sheep farming	1 065	485	65	4 749
0125	Beef cattle farming	394	101	16	7 766
0130	Dairy cattle farming	3 392	2 861	302	8 064
0141	Poultry farming (meat)	20	82	50	167
0142	Poultry farming (eggs)	17	32	40	118
0151	Pig farming	37	52	56	192
0152	Horse farming	39	15	1	401
0153	Deer farming	—	—	—	63
0159	Livestock farming n.e.c.	49	20	5	464
0169	Crop and plant growing n.e.c.	88	75	24	375
<b>Total (ANZSIC Code 01)</b>		<b>8 302</b>	<b>6 710</b>	<b>1 538</b>	<b>35 995</b>
02	Services to agriculture; hunting and trapping	3	3	—	61
03	Forestry and logging	—	—	—	2
04	Commercial fishing	—	—	—	1
<b>Total (ANZSIC Division A)</b>		<b>8 305</b>	<b>6 713</b>	<b>1 538</b>	<b>36 059</b>
All other ANZSIC Divisions		34	19	13	322
Unclassified		—	—	—	275
<b>Total all industries</b>		<b>8 339</b>	<b>6 732</b>	<b>1 551</b>	<b>36 656</b>



## 6

## ESTABLISHMENTS BY INDUSTRY, By Area Range, At 31 March 1997

AREA OF ESTABLISHMENT  
(HECTARES).....

Industry class		0 to 49	50 to 99	100 to 499	500 to 999	1,000 to 2,499	2,500 to 4,999
ANZSIC code	Industry of establishment	no.	no.	no.	no.	no.	no.
0111	Plant nurseries	284	11	21	1	—	—
0112	Cut flower and flower seed growing	187	22	19	4	—	1
0113	Vegetable growing	510	158	290	32	8	3
0114	Grape growing	1 727	92	73	3	5	—
0115	Apple and pear growing	313	64	42	6	2	—
0116	Stonefruit growing	202	24	19	—	—	—
0117	Kiwi fruit growing	5	1	2	—	—	—
0119	Fruit growing n.e.c.	311	36	30	4	4	1
0121	Grain growing	27	53	949	999	827	133
0122	Grain-sheep/beef cattle farming	18	92	1 378	1 060	660	84
0123	Sheep-beef cattle farming	132	272	1 580	497	263	34
0124	Sheep farming	196	388	2 753	990	375	41
0125	Beef cattle farming	1 965	2 006	3 326	348	97	7
0130	Dairy cattle farming	880	2 056	4 895	205	27	1
0141	Poultry farming (meat)	133	8	22	2	2	—
0142	Poultry farming (eggs)	93	8	15	1	1	—
0151	Pig farming	68	33	54	31	6	—
0152	Horse farming	212	80	105	4	—	—
0153	Deer farming	38	7	18	—	—	—
0159	Livestock farming n.e.c.	358	45	49	10	2	—
0169	Crop and plant growing n.e.c.	127	63	149	28	5	3
<b>Total (ANZSIC Code 01)</b>		<b>7 786</b>	<b>5 519</b>	<b>15 789</b>	<b>4 225</b>	<b>2 284</b>	<b>308</b>
02	Services to agriculture; hunting and trapping	18	16	24	3	—	—
03	Forestry and logging	1	1	—	—	—	—
04	Commercial fishing	1	—	—	—	—	—
<b>Total (ANZSIC Division A)</b>		<b>7 806</b>	<b>5 536</b>	<b>15 813</b>	<b>4 228</b>	<b>2 284</b>	<b>308</b>
All other ANZSIC Divisions		146	52	102	16	4	—
Unclassified		128	48	91	7	1	—
<b>Total all industries</b>		<b>8 080</b>	<b>5 636</b>	<b>16 006</b>	<b>4 251</b>	<b>2 289</b>	<b>308</b>

		AREA OF ESTABLISHMENT (HECTARES).....				
Industry class		5,000 to 9,999	10,000 to 24,999	25,000 to 49,999	50,000 or more	Total establishments
ANZSIC code	Industry of establishment	no.	no.	no.	no.	no.
0111	Plant nurseries	1	—	—	—	318
0112	Cut flower and flower seed growing	—	—	—	—	233
0113	Vegetable growing	—	—	—	—	1 001
0114	Grape growing	1	—	—	—	1 901
0115	Apple and pear growing	—	—	—	—	427
0116	Stonefruit growing	—	—	—	—	245
0117	Kiwi fruit growing	—	—	—	—	8
0119	Fruit growing n.e.c.	—	—	—	—	386
0121	Grain growing	24	2	—	—	3 014
0122	Grain-sheep/beef cattle farming	11	4	1	—	3 308
0123	Sheep-beef cattle farming	10	2	4	1	2 795
0124	Sheep farming	6	—	—	—	4 749
0125	Beef cattle farming	5	6	5	1	7 766
0130	Dairy cattle farming	—	—	—	—	8 064
0141	Poultry farming (meat)	—	—	—	—	167
0142	Poultry farming (eggs)	—	—	—	—	118
0151	Pig farming	—	—	—	—	192
0152	Horse farming	—	—	—	—	401
0153	Deer farming	—	—	—	—	63
0159	Livestock farming n.e.c.	—	—	—	—	464
0169	Crop and plant growing n.e.c.	—	—	—	—	375
<b>Total (ANZSIC Code 01)</b>		<b>58</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>35 995</b>
02	Services to agriculture; hunting and trapping	—	—	—	—	61
03	Forestry and logging	—	—	—	—	2
04	Commercial fishing	—	—	—	—	1
<b>Total (ANZSIC Division A)</b>		<b>58</b>	<b>14</b>	<b>10</b>	<b>2</b>	<b>36 059</b>
All other ANZSIC Divisions		1	1	—	—	322
Unclassified		—	—	—	—	275
<b>Total all industries</b>		<b>59</b>	<b>15</b>	<b>10</b>	<b>2</b>	<b>36 656</b>

(a) Other State publications have area of establishment categories above 100,000 hectares. However, in Victoria there are no establishments with an area of greater than 100,000 hectares.

## 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
Melbourne	5.0	4.5	2.4	10.8
Barwon	28.1	7.0	—	1.4
Western District	46.4	11.1	—	0.7
Central Highlands	69.4	11.0	0.3	3.0
Wimmera	620.8	305.2	0.7	0.1
Mallee	807.7	187.0	7.9	3.2
Loddon	147.5	31.1	0.7	0.8
Goulburn	142.1	22.4	10.1	3.0
Ovens-Murray	14.3	5.2	1.2	0.1
East Gippsland	5.6	1.9	0.1	3.4
Gippsland	1.7	4.8	0.3	4.2
<b>Victoria</b>				
1997	<b>1 888.6</b>	<b>591.3</b>	<b>23.9</b>	<b>30.6</b>
1996	<b>1 883.1</b>	<b>563.3</b>	<b>23.3</b>	<b>31.3</b>
1995	<b>1 569.8</b>	<b>592.8</b>	<b>22.7</b>	<b>28.2</b>

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
Melbourne	225.4	544.1	769.5
Barwon	500.1	397.5	897.6
Western District	1 730.7	606.0	2 336.7
Central Highlands	754.4	391.6	1 146.0
Wimmera	2 332.7	1 048.7	3 381.4
Mallee	2 515.8	1 496.3	4 012.1
Loddon	958.5	491.8	1 450.3
Goulburn	1 570.3	1 162.1	2 732.4
Ovens-Murray	663.8	1 099.1	1 762.9
East Gippsland	1 045.0	2 148.5	3 193.5
Gippsland	448.8	645.5	1 094.3
<b>Victoria</b>			
1997	<b>12 745.4</b>	<b>10 031.3</b>	<b>22 776.7</b>
1996	<b>12 768.0</b>	<b>10 008.7</b>	<b>22 776.7</b>
1995	<b>12 719.4</b>	<b>10 057.3</b>	<b>22 776.7</b>

(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, etc.

## 8

## CROP STUBBLE DISPOSAL, Year ended 31 March 1997

## AREA OF HOLDING ON WHICH CROP STUBBLE TECHNIQUES WERE USED.....

Statistical division	Stubble was burnt '000 ha	Stubble removed by grazing, baling or fire harrowing '000 ha	Stubble was incorporated(a) '000 ha	Stubble was mulched(b) '000 ha	Stubble was left intact(c) '000 ha
Melbourne	0.6	0.4	2.5	—	—
Barwon	8.4	5.7	4.1	0.6	3.2
Western District	18.8	9.8	3.2	1.0	3.5
Central Highlands	28.6	8.3	4.0	1.7	4.6
Wimmera	137.6	73.7	95.3	139.7	112.7
Mallee	73.4	67.9	164.2	70.6	85.1
Loddon	35.3	22.2	9.6	5.4	19.6
Goulburn	55.7	17.9	8.7	2.3	8.8
Ovens-Murray	5.8	1.5	0.5	0.4	0.8
East Gippsland	0.4	0.6	1.2	0.1	0.3
Gippsland	—	0.4	0.4	0.2	0.2
<b>Victoria</b>					
<b>1997</b>	<b>364.8</b>	<b>208.4</b>	<b>293.8</b>	<b>221.9</b>	<b>238.7</b>
<b>1996</b>	<b>279.6</b>	<b>195.7</b>	<b>364.4</b>	<b>179.9</b>	<b>218.9</b>
<b>1995</b>	<b>275.7</b>	<b>n.c.</b>	<b>447.7</b>	<b>142.6</b>	<b>367.8</b>

(a) Farm machinery used to plough stubble into soil.

(b) Farm machinery used to chop or slash stubble into smaller lengths.

(c) No cultivation; crops sown by direct drilling.

## 9

## CULTIVATION OF BROADACRE CROPS, Year ended 31 March 1997

Statistical division	More than two cultivations '000 ha	One or two cultivations '000 ha	No cultivation '000 ha
Melbourne	2.5	1.4	—
Barwon	12.6	8.3	4.8
Western District	18.3	14.1	7.5
Central Highlands	16.4	18.6	19.4
Wimmera	285.5	273.0	147.6
Mallee	458.5	253.7	65.7
Loddon	53.3	55.0	25.8
Goulburn	45.9	45.1	22.5
Ovens-Murray	4.0	4.2	3.1
East Gippsland	2.7	0.6	0.2
Gippsland	1.6	0.4	0.1
<b>Victoria</b>			
<b>1997</b>	<b>901.4</b>	<b>674.4</b>	<b>296.7</b>
<b>1996</b>	<b>946.6</b>	<b>575.0</b>	<b>259.1</b>

SEEDLINGS  
PLANTED.....

Statistical division	For timber/pulp .....		For other purposes .....	
	'000	ha	'000	ha
Melbourne	27.9	8.1	165.4	348.7
Barwon	118.3	94.8	185.7	588.5
Western District	1 273.8	1 297.3	392.4	1 537.6
Central Highlands	145.9	130.4	170.0	816.9
Wimmera	153.2	123.9	249.1	867.1
Mallee	26.8	27.6	294.7	1 335.9
Loddon	91.5	73.8	164.8	895.9
Goulburn	164.9	129.5	461.7	2 022.5
Ovens-Murray	125.0	109.8	102.7	438.0
East Gippsland	42.3	32.2	155.7	569.5
Gippsland	22.3	19.8	227.1	672.0
<b>Victoria</b>				
<b>1997</b>	<b>2 192.0</b>	<b>2 047.2</b>	<b>2 569.2</b>	<b>10 092.6</b>
<b>1996</b>	<b>1 019.6</b>	<b>1 022.0</b>	<b>1 032.4</b>	<b>3 383.0</b>

## SEED SOWN

## TIMBER HARVESTED

Statistical division	SEED SOWN		TIMBER HARVESTED	
	kg	ha	Hardwood t	Softwood t
Melbourne	328	35	10	150
Barwon	151	160	52	441
Western District	1 278	1 419	1 467	14 618
Central Highlands	203	311	1 342	92
Wimmera	236	285	11	1 173
Mallee	2 056	821	45	2
Loddon	936	194	349	35
Goulburn	1 222	314	257	5 075
Ovens-Murray	82	—	136	850
East Gippsland	221	773	2 443	2 956
Gippsland	1 420	1 316	708	331
<b>Victoria</b>				
<b>1997</b>	<b>8 133</b>	<b>5 627</b>	<b>6 820</b>	<b>25 723</b>
<b>1996</b>	<b>15 441</b>	<b>13 195</b>	<b>2 378</b>	<b>19 268</b>

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

# 11

## FENCING, Year ended 31 March 1997(a)

### KILOMETRES ERECTED TO ISOLATE.....

<i>Statistical division</i>	<i>Saline areas</i> km	<i>Other degraded areas</i> km	<i>Creeks and rivers</i> km	<i>Remnant native vegetation</i> km	<i>Planted trees and shrubs</i> km
Melbourne	9.4	37.5	60.1	41.3	161.0
Barwon	71.0	31.8	82.7	33.3	201.2
Western District	188.4	48.7	374.4	108.9	706.6
Central Highlands	73.5	48.8	113.5	49.5	243.9
Wimmera	63.7	40.3	50.4	96.6	266.5
Mallee	212.1	58.8	51.1	131.5	1 074.6
Loddon	126.7	81.8	105.2	129.6	419.4
Goulburn	147.6	130.3	337.9	208.9	1 041.0
Ovens-Murray	11.8	68.2	149.0	51.6	305.9
East Gippsland	33.1	28.8	142.4	86.8	710.0
Gippsland	17.7	45.6	202.7	150.5	346.9
<b>Victoria</b>					
<b>1997</b>	<b>955.0</b>	<b>620.6</b>	<b>1 669.4</b>	<b>1 088.5</b>	<b>5 477.0</b>
<b>1996</b>	<b>1 214.4</b>	<b>740.2</b>	<b>1 785.7</b>	<b>1 840.1</b>	<b>30 549.4</b>

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

# 12

## FALLOW LAND PREPARED FOR CROPPING, Before 31 December 1996

<i>Statistical division</i>	<i>Pasture topping</i> '000 ha	<i>Complete chemical fallow</i> '000 ha	<i>Cultivation only</i> '000 ha	<i>Total area</i> '000 ha
Melbourne	0.2	0.1	0.9	1.2
Barwon	0.8	0.6	2.4	3.8
Western District	2.3	1.2	3.4	6.9
Central Highlands	4.3	1.7	4.3	10.3
Wimmera	60.9	67.9	97.8	226.6
Mallee	102.4	115.5	240.7	458.6
Loddon	12.1	8.4	13.9	34.3
Goulburn	7.0	5.9	14.5	27.4
Ovens-Murray	0.4	0.3	1.2	1.9
East Gippsland	0.3	0.2	0.8	1.3
Gippsland	0.2	0.1	0.4	0.7
<b>Victoria</b>				
<b>1997</b>	<b>190.6</b>	<b>201.8</b>	<b>380.4</b>	<b>772.9</b>

# 13

## CROPS AND PASTURES IRRIGATED, Year ended 31 March 1997(a)

<i>Statistical division</i>	<i>Cereals</i> '000 ha	<i>Fruit and nuts</i> '000 ha	<i>Grapevines</i> '000 ha	<i>Pastures</i> '000 ha	<i>Vegetables</i> '000 ha	<i>Other</i> '000 ha	<i>Total area</i> '000 ha
Melbourne	—	2.2	1.1	5.6	5.9	1.1	16.0
Barwon	—	—	0.1	2.6	0.7	0.5	4.0
Western District	0.2	—	—	6.8	0.4	0.4	7.8
Central Highlands	0.1	0.3	0.4	1.0	2.5	0.4	4.7
Wimmera	0.4	0.2	0.1	3.2	—	1.3	5.1
Mallee	3.3	6.7	16.8	101.1	2.5	1.3	131.7
Loddon	8.8	0.5	0.2	60.3	0.6	2.0	72.4
Goulburn	5.2	7.9	1.0	219.5	2.3	3.3	239.3
Ovens-Murray	0.2	0.6	1.0	8.1	—	1.6	11.5
East Gippsland	0.3	—	—	42.9	2.0	0.6	45.8
Gippsland	—	0.3	0.1	3.7	2.9	0.7	7.6
<b>Victoria</b>							
<b>1997</b>	<b>18.6</b>	<b>18.6</b>	<b>20.8</b>	<b>454.7</b>	<b>19.9</b>	<b>13.4</b>	<b>546.1</b>
<b>1996</b>	<b>n.c</b>	<b>n.c</b>	<b>n.c</b>	<b>n.c</b>	<b>n.c</b>	<b>n.c</b>	<b>419.0</b>

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

Statistical division	BARLEY			GRAIN SORGHUM		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	3.2	5.8	1.8	—	—	—
Barwon	12.1	21.8	1.8	—	0.1	1.8
Western District	7.2	12.2	1.7	—	0.1	2.5
Central Highlands	7.4	14.3	1.9	—	—	—
Wimmera	213.2	501.1	2.4	0.7	1.3	1.9
Mallee	292.7	540.4	1.8	0.3	0.7	2.3
Loddon	30.7	58.4	1.9	0.2	0.2	1.3
Goulburn	17.6	34.6	2.0	0.1	0.3	1.9
Ovens-Murray	0.1	—	—	—	—	—
East Gippsland	0.4	0.7	1.8	—	—	—
Gippsland	0.1	0.1	0.9	—	—	—
<b>Victoria</b>						
<b>1997</b>	<b>584.7</b>	<b>1 189.4</b>	<b>2.0</b>	<b>1.4</b>	<b>2.7</b>	<b>1.9</b>
<b>1996</b>	<b>627.5</b>	<b>1 341.7</b>	<b>2.1</b>	<b>1.5</b>	<b>4.0</b>	<b>2.6</b>
<b>1995</b>	<b>492.3</b>	<b>448.1</b>	<b>0.9</b>	<b>5.7</b>	<b>7.6</b>	<b>1.3</b>

Statistical division	MAIZE			MILLET		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	—	—	—	—	—	—
Barwon	0.1	0.2	2.0	—	0.1	2.9
Western District	—	0.1	—	0.2	0.2	1.2
Central Highlands	—	—	—	0.1	0.2	2.3
Wimmera	—	—	—	0.2	0.3	1.4
Mallee	0.1	0.5	4.8	0.5	0.8	1.6
Loddon	0.4	3.1	7.8	0.5	0.8	1.5
Goulburn	0.2	1.7	7.7	0.7	1.2	1.8
Ovens-Murray	—	—	—	0.1	0.3	2.5
East Gippsland	0.1	0.8	8.1	0.1	0.1	0.9
Gippsland	—	0.2	6.1	0.1	0.2	2.8
<b>Victoria</b>						
<b>1997</b>	<b>1.0</b>	<b>6.5</b>	<b>6.8</b>	<b>2.5</b>	<b>4.1</b>	<b>1.6</b>
<b>1996</b>	<b>1.1</b>	<b>6.8</b>	<b>6.0</b>	<b>1.0</b>	<b>1.8</b>	<b>1.7</b>
<b>1995</b>	<b>0.7</b>	<b>5.1</b>	<b>7.4</b>	<b>1.7</b>	<b>2.6</b>	<b>1.6</b>



Statistical division	OATS			TRITICALE		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	0.3	0.6	2.1	—	—	—
Barwon	4.8	8.5	1.8	2.1	4.3	2.1
Western District	13.8	28.0	2.0	3.9	7.7	2.0
Central Highlands	26.3	61.1	2.3	6.0	14.0	2.3
Wimmera	48.2	75.9	1.6	15.4	28.3	1.8
Mallee	21.1	25.1	1.2	40.4	54.1	1.3
Loddon	26.1	42.7	1.6	4.3	7.9	1.8
Goulburn	28.3	53.1	1.9	18.5	44.9	2.4
Ovens-Murray	4.3	7.1	1.7	2.2	5.5	2.5
East Gippsland	1.2	1.7	1.4	0.3	0.5	1.6
Gippsland	0.2	0.3	1.7	0.1	0.1	2.5
<b>Victoria</b>						
1997	<b>174.6</b>	<b>304.0</b>	<b>1.7</b>	<b>93.0</b>	<b>167.2</b>	<b>1.8</b>
1996	<b>187.0</b>	<b>391.7</b>	<b>2.1</b>	<b>54.8</b>	<b>120.5</b>	<b>2.2</b>
1995	<b>147.7</b>	<b>200.6</b>	<b>1.4</b>	<b>47.0</b>	<b>66.2</b>	<b>1.4</b>

Statistical division	WHEAT		
	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	0.9	1.5	1.6
Barwon	5.8	12.3	2.1
Western District	12.7	26.1	2.1
Central Highlands	22.1	57.4	2.6
Wimmera	334.6	953.9	2.9
Mallee	442.4	865.4	2.0
Loddon	78.8	182.4	2.3
Goulburn	57.8	147.0	2.5
Ovens-Murray	6.1	13.7	2.3
East Gippsland	1.0	1.8	1.9
Gippsland	0.3	0.6	1.9
<b>Victoria</b>			
1997	<b>962.6</b>	<b>2 262.3</b>	<b>2.4</b>
1996	<b>853.4</b>	<b>1 921.2</b>	<b>2.3</b>
1995	<b>821.8</b>	<b>944.2</b>	<b>1.1</b>

## CHICK PEAS

## FABA BEANS

Statistical division	Area	Production	Yield	Area	Production	Yield
	'000 ha	'000 t	t/ha	'000 ha	'000 t	t/ha
Melbourne	—	—	—	—	—	—
Barwon	—	—	—	—	—	—
Western District	0.4	0.3	0.9	0.1	0.1	0.5
Central Highlands	0.1	0.1	1.0	0.1	0.2	1.6
Wimmera	101.9	133.3	1.3	25.9	49.3	1.9
Mallee	30.4	34.8	1.1	6.4	7.9	1.2
Loddon	2.1	3.0	1.4	1.4	2.6	1.8
Goulburn	0.2	0.3	1.6	0.5	1.1	2.0
Ovens-Murray	—	—	—	—	—	—
East Gippsland	—	—	—	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
1997	135.0	171.9	1.3	34.6	61.2	1.8
1996	115.0	199.6	1.7	23.1	44.2	1.9
1995	143.5	37.5	0.3	36.2	17.4	0.5

## FIELD PEAS

## LUPINS

Statistical division	Area	Production	Yield	Area	Production	Yield
	'000 ha	'000 t	t/ha	'000 ha	'000 t	t/ha
Melbourne	—	—	—	—	—	—
Barwon	0.3	0.5	1.7	0.4	0.6	1.4
Western District	0.5	0.4	0.7	0.8	1.0	1.3
Central Highlands	0.1	—	—	1.5	2.2	1.5
Wimmera	80.3	112.1	1.4	15.7	17.3	1.1
Mallee	82.8	85.8	1.0	9.2	8.7	0.9
Loddon	8.2	11.7	1.4	7.5	10.6	1.4
Goulburn	1.7	2.9	1.7	7.0	10.7	1.5
Ovens-Murray	—	—	—	0.7	0.7	1.1
East Gippsland	—	—	—	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
1997	173.9	213.3	1.2	42.7	51.8	1.2
1996	171.9	260.0	1.5	50.5	62.0	1.2
1995	223.2	68.9	0.3	64.4	23.0	0.4

Statistical division	MUNG BEANS.....			VETCHES.....		
	<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
Melbourne	—	—	—	—	—	—
Barwon	—	—	—	—	—	—
Western District	—	—	—	—	—	—
Central Highlands	—	—	—	—	—	—
Wimmera	0.1	0.1	1.1	10.3	4.6	0.4
Mallee	0.3	0.2	0.7	17.7	1.3	0.1
Loddon	—	—	—	0.4	0.2	0.4
Goulburn	—	—	—	0.1	0.1	0.8
Ovens-Murray	—	—	—	—	—	—
East Gippsland	—	—	—	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
<b>1997</b>	<b>0.4</b>	<b>0.3</b>	<b>0.8</b>	<b>28.4</b>	<b>6.1</b>	<b>0.2</b>
<b>1996</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>23.0</b>	<b>14.3</b>	<b>0.6</b>
<b>1995</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>24.0</b>	<b>0.8</b>	<b>—</b>

Statistical division	LUCERNE.....			PASTURES.....			OTHER		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	0.3	1.4	4.5				10.6	32.3	3.1
Barwon	1.6	6.9	4.3				23.9	73.9	3.1
Western District	2.9	11.5	4.0				103.6	325.7	3.1
Central Highlands	3.0	10.3	3.4				20.9	63.3	3.0
Wimmera	2.7	9.5	3.5				29.8	76.4	2.6
Mallee	3.7	23.0	6.3				22.2	68.3	3.1
Loddon	9.9	55.7	5.6				16.8	48.9	2.9
Goulburn	8.2	46.9	5.7				86.3	307.0	3.6
Ovens-Murray	1.2	6.0	4.8				14.4	53.0	3.7
East Gippsland	2.4	12.2	5.1				21.1	68.6	3.3
Gippsland	0.9	3.4	3.8				42.6	137.6	3.2
<b>Victoria</b>									
<b>1997</b>	<b>36.8</b>	<b>186.7</b>	<b>5.1</b>				<b>392.2</b>	<b>1 255.0</b>	<b>3.2</b>
<b>1996</b>	<b>48.9</b>	<b>237.9</b>	<b>4.9</b>				<b>511.9</b>	<b>1 970.9</b>	<b>3.9</b>
<b>1995</b>	<b>37.2</b>	<b>188.4</b>	<b>5.1</b>				<b>329.5</b>	<b>1 245.9</b>	<b>3.8</b>

Statistical division	CEREAL CROPS.....			OTHER CROPS.....		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	0.4	1.3	3.0	0.3	0.8	2.8
Barwon	2.3	7.6	3.3	0.4	1.2	3.4
Western District	6.7	23.1	3.5	1.0	2.9	3.0
Central Highlands	5.6	23.4	4.2	0.5	1.7	3.2
Wimmera	7.0	21.8	3.1	2.7	6.9	2.6
Mallee	5.1	13.4	2.6	1.0	2.2	2.2
Loddon	5.3	20.9	3.9	0.7	2.2	3.1
Goulburn	16.4	67.8	4.1	1.7	4.4	2.5
Ovens-Murray	1.1	4.3	4.0	0.3	1.1	3.2
East Gippsland	1.2	4.9	4.2	0.3	1.3	4.2
Gippsland	0.3	0.9	2.7	0.5	1.2	2.5
<b>Victoria</b>						
<b>1997</b>	<b>51.4</b>	<b>189.4</b>	<b>3.7</b>	<b>9.4</b>	<b>26.0</b>	<b>2.8</b>
<b>1996</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>13.9</b>	<b>53.2</b>	<b>3.8</b>
<b>1995</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>9.7</b>	<b>26.7</b>	<b>2.8</b>

Statistical division	CANOLA			SAFFLOWER		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	0.2	0.4	1.9	—	—	—
Barwon	3.2	4.3	1.4	—	—	—
Western District	2.6	3.4	1.3	0.1	—	—
Central Highlands	6.6	11.1	1.7	0.1	—	—
Wimmera	53.0	74.8	1.4	11.7	6.0	0.5
Mallee	13.5	17.5	1.3	3.2	1.6	0.5
Loddon	6.3	8.4	1.3	2.3	0.9	0.4
Goulburn	6.1	10.9	1.8	0.6	0.3	0.4
Ovens-Murray	0.4	0.7	1.5	—	—	—
East Gippsland	0.1	0.2	1.4	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
1997	92.2	131.6	1.4	18.0	8.8	0.5
1996	76.2	119.6	1.6	25.1	17.1	0.7
1995	74.5	56.7	0.8	17.7	8.2	0.5

Statistical division	SOYBEANS			SUNFLOWER		
	Area '000 ha	Production '000 t	Yield t/ha	Area '000 ha	Production '000 t	Yield t/ha
Melbourne	—	—	—	—	—	—
Barwon	0.1	0.1	2.1	0.4	0.2	0.5
Western District	—	—	—	0.2	0.2	1.0
Central Highlands	—	—	—	—	—	—
Wimmera	—	—	—	0.1	0.1	1.0
Mallee	—	—	—	0.3	0.3	1.1
Loddon	0.1	0.1	2.2	0.4	0.6	1.8
Goulburn	1.6	3.7	2.2	0.1	0.3	2.5
Ovens-Murray	—	—	—	—	—	—
East Gippsland	—	—	—	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
1997	1.8	4.0	2.2	1.4	1.7	1.2
1996	2.0	4.0	2.0	1.6	2.2	1.3
1995	1.8	2.3	1.3	0.9	1.5	1.7

<i>Statistical division</i>	HOPS			TOBACCO		
	<i>Area</i> '000 ha	<i>Production</i> '000 t	<i>Yield</i> t/ha	<i>Area</i> '000 ha	<i>Production</i> '000 t	<i>Yield</i> t/ha
Melbourne	—	—	—	—	—	—
Barwon	—	—	—	—	—	—
Western District	—	—	—	—	—	—
Central Highlands	—	—	—	—	—	—
Wimmera	—	—	—	—	—	—
Mallee	—	—	—	—	—	—
Loddon	—	—	—	—	—	—
Goulburn	—	—	—	—	—	—
Ovens-Murray	0.3	0.6	2.3	1.7	4.1	2.5
East Gippsland	—	—	—	—	—	—
Gippsland	—	—	—	—	—	—
<b>Victoria</b>						
<b>1997</b>	<b>0.3</b>	<b>0.6</b>	<b>2.3</b>	<b>1.7</b>	<b>4.1</b>	<b>2.5</b>
<b>1996</b>	<b>0.3</b>	<b>0.7</b>	<b>2.4</b>	<b>1.4</b>	<b>3.2</b>	<b>2.3</b>
<b>1995</b>	<b>0.3</b>	<b>0.6</b>	<b>2.1</b>	<b>1.4</b>	<b>2.9</b>	<b>2.1</b>

	1995	1996 <sup>r</sup>	1997 <sup>p</sup>
	\$m	\$m	\$m
<b>Cereals for grain</b>			
Barley	102.3	312.1	242.0
Maize	1.3	1.6	1.8
Oats	43.5	55.1	42.7
Panicum and millet	1.1	0.6	1.6
Sorghum	2.0	0.8	0.6
Triticale	12.3	25.3	29.1
Wheat	204.6	504.0	484.9
Other	2.3	3.3	3.6
<b>Total</b>	<b>368.9</b>	<b>902.8</b>	<b>806.3</b>
<b>Crops and pastures for hay</b>			
Cereals	25.6	41.5	22.4
Other crops	8.2	7.7	3.8
Lucerne	39.4	43.1	27.7
Other pastures	188.5	279.0	154.7
<b>Total</b>	<b>261.7</b>	<b>371.3</b>	<b>208.6</b>
<b>Other crops</b>			
Canola	21.4	47.5	48.1
Chick peas	18.8	74.9	48.5
Field peas	18.8	65.4	52.7
Hops	2.8	3.3	2.1
Tobacco (dried leaf)	16.1	18.8	24.8

## AREA SOWN (HECTARES)

	0 to 49	50 to 99	100 to 149	150 to 199	200 to 299	300 to 399
<b>Barley for grain</b>						
establishments (number)	1 504	1 029	692	377	477	182
percentage of total establishments	33.3	22.8	15.3	8.3	10.6	4.0
area (hectares)	39 231	72 464	81 860	63 159	111 886	60 542
percentage of total area of barley planted	6.7	12.4	14.0	10.8	19.1	10.4
production (tonnes)	74 451	147 756	177 095	138 661	235 803	124 862
percentage of total barley production	6.3	12.4	14.9	11.7	19.8	10.5
<b>Oats for grain</b>						
establishments (number)	3 115	759	206	60	68	16
percentage of total establishments	73.6	17.9	4.9	1.4	1.6	0.4
area (hectares)	66 836	49 715	23 587	9 866	15 327	5 176
percentage of total area of oats planted	38.3	28.5	13.5	5.7	8.8	3.0
production (tonnes)	127 134	85 780	36 894	15 224	24 837	9 921
percentage of total oats production	41.8	28.2	12.1	5.0	8.2	3.3
<b>Wheat for grain</b>						
establishments (number)	1 986	1 228	870	558	811	360
percentage of total establishments	31.4	19.4	13.8	8.8	12.8	5.7
area (hectares)	49 050	86 887	104 387	94 224	191 494	120 000
percentage of total area of wheat planted	5.1	9.0	10.8	9.8	19.9	12.5
production (tonnes)	111 967	210 915	260 339	251 862	482 071	291 683
percentage of total wheat production	4.9	9.3	11.5	11.1	21.3	12.9

## AREA SOWN (HECTARES)

	400 to 499	500 to 999	1,000 to 1,499	1,500 to 1,999	2,000 and over	Total
<b>Barley for grain</b>						
establishments (number)	109	131	15	2	1	4 519
percentage of total establishments	2.4	2.9	0.3	—	—	100.0
area (hectares)	46 683	84 633	17 400	3 321	3 500	584 679
percentage of total area of barley planted	8.0	14.5	3.0	0.6	0.6	100.0
production (tonnes)	94 133	158 843	30 090	6 300	1 375	1 189 370
percentage of total barley production	7.9	13.4	2.5	0.5	0.1	100.0
<b>Oats for grain</b>						
establishments (number)	2	5	—	—	—	4 231
percentage of total establishments	—	0.1	—	—	—	100.0
area (hectares)	800	3 249	—	—	—	174 556
percentage of total area of oats planted	0.5	1.9	—	—	—	100.0
production (tonnes)	1 100	3 155	—	—	—	304 045
percentage of total oats production	0.4	1.0	—	—	—	100.0
<b>Wheat for grain</b>						
establishments (number)	239	220	33	13	5	6 323
percentage of total establishments	3.8	3.5	0.5	0.2	0.1	100.0
area (hectares)	103 423	143 516	36 560	20 963	12 056	962 561
percentage of total area of wheat planted	10.7	14.9	3.8	2.2	1.3	100.0
production (tonnes)	236 545	295 237	73 567	29 162	18 925	2 262 273
percentage of total wheat production	10.5	13.1	3.3	1.3	0.8	100.0

(a) Year ended 31 March 1997.



# 21

## ESTABLISHMENTS GROWING CEREALS FOR GRAIN, Year ended 31 March 1997

	<i>Barley</i>	<i>Grain sorghum</i>	<i>Maize</i>	<i>Oats</i>	<i>Triticale</i>	<i>Wheat</i>
<i>Statistical division</i>	no.	no.	no.	no.	no.	no.
Melbourne	37	2	—	18	1	18
Barwon	218	1	3	186	55	156
Western District	162	1	2	478	91	324
Central Highlands	172	—	1	641	135	426
Wimmera	1 726	6	—	870	245	2 182
Mallee	1 409	7	4	333	252	1 485
Loddon	451	2	9	613	93	754
Goulburn	323	4	10	861	342	814
Ovens-Murray	2	1	1	157	50	125
East Gippsland	16	2	11	55	5	29
Gippsland	3	1	6	19	2	10
<b>Victoria</b>						
<b>1997</b>	<b>4 519</b>	<b>27</b>	<b>47</b>	<b>4 231</b>	<b>1 271</b>	<b>6 323</b>
<b>1996</b>	<b>4 543</b>	<b>23</b>	<b>41</b>	<b>4 254</b>	<b>951</b>	<b>5 694</b>
<b>1995</b>	<b>4 123</b>	<b>76</b>	<b>27</b>	<b>3 698</b>	<b>912</b>	<b>5 247</b>

# 22

## GRAIN HELD ON HOLDING, Year ended 31 March 1997

TONNES OF GRAIN  
HELD.....

	<i>Barley</i>	<i>Oats</i>	<i>Wheat</i>
<i>Statistical division</i>	'000 t	'000 t	'000 t
Melbourne	0.5	0.3	0.1
Barwon	4.2	6.2	3.2
Western District	7.2	17.2	8.1
Central Highlands	4.6	29.4	15.7
Wimmera	64.1	37.7	94.4
Mallee	99.8	19.4	72.6
Loddon	8.5	23.7	19.5
Goulburn	6.5	20.7	18.0
Ovens-Murray	0.5	4.5	3.4
East Gippsland	0.5	0.3	0.6
Gippsland	1.1	0.1	0.3
<b>Victoria</b>			
<b>1997</b>	<b>197.5</b>	<b>159.6</b>	<b>235.8</b>

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
Melbourne	326.6	466.0	29 623.3	63.6	—	—	—	—
Barwon	—	0.9	19.3	21.0	—	—	—	—
Western District	0.5	6.2	197.0	31.6	—	—	—	—
Central Highlands	15.7	76.2	4 811.4	63.2	—	—	—	—
Wimmera	0.3	1.1	32.8	28.7	—	—	—	—
Mallee	17.2	0.3	24.1	83.6	4.2	28.0	2 725.5	97.3
Loddon	163.6	271.8	11 462.8	42.2	—	—	—	—
Goulburn	435.2	466.7	56 470.2	121.0	1.2	5.1	315.6	61.6
Ovens-Murray	76.6	154.5	9 637.7	62.4	—	0.5	2.7	5.8
East Gippsland	0.7	8.9	292.6	33.0	—	—	—	—
Gippsland	64.5	63.2	6 396.5	101.3	—	—	—	—
<b>Victoria</b>								
<b>1997</b>	<b>1 100.9</b>	<b>1 515.8</b>	<b>118 967.6</b>	<b>78.5</b>	<b>5.4</b>	<b>33.6</b>	<b>3 043.9</b>	<b>90.5</b>
<b>1996</b>	<b>854.7</b>	<b>1 349.7</b>	<b>78 988.0</b>	<b>58.5</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>
<b>1995</b>	<b>668.0</b>	<b>1 286.0</b>	<b>98 971.4</b>	<b>77.0</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>

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
Melbourne	7.0	22.8	1 222.8	53.6	—	—	—	—
Barwon	0.3	—	4.0	—	—	—	—	—
Western District	—	—	—	—	—	—	—	—
Central Highlands	—	—	—	—	—	—	—	—
Wimmera	—	—	—	—	—	—	—	—
Mallee	12.7	51.0	3 648.0	71.5	40.2	106.8	5 278.0	49.4
Loddon	—	—	—	—	—	—	—	—
Goulburn	13.7	15.4	1 382.7	89.8	—	0.7	41.4	62.5
Ovens-Murray	—	5.8	107.5	18.5	—	0.1	—	—
East Gippsland	2.2	0.1	—	—	—	—	—	—
Gippsland	0.7	0.3	6.1	21.4	—	—	—	—
<b>Victoria</b>								
<b>1997</b>	<b>36.5</b>	<b>95.3</b>	<b>6 371.1</b>	<b>66.8</b>	<b>40.2</b>	<b>107.6</b>	<b>5 319.5</b>	<b>49.4</b>
<b>1996</b>	<b>26.6</b>	<b>91.6</b>	<b>4 829.4</b>	<b>52.7</b>	<b>39.5</b>	<b>105.2</b>	<b>4 963.2</b>	<b>47.2</b>
<b>1995</b>	<b>24.0</b>	<b>67.3</b>	<b>6 088.0</b>	<b>90.4</b>	<b>44.7</b>	<b>86.6</b>	<b>3 830.0</b>	<b>44.2</b>

(a) For footnote see end of table.

Statistical division	NASHI				ORANGES			
	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
Melbourne	0.5	5.1	102.9	20.1	—	—	—	—
Barwon	—	—	—	—	—	—	—	—
Western District	—	0.2	0.8	5.3	—	—	—	—
Central Highlands	0.8	5.4	105.9	19.7	—	—	—	—
Wimmera	—	—	0.5	25.0	—	—	—	—
Mallee	1.6	0.1	1.6	25.9	183.2	1 101.2	83 384.4	75.7
Loddon	—	0.2	5.9	26.6	—	—	—	—
Goulburn	2.1	306.3	4 348.0	14.2	21.8	83.5	5 372.6	64.3
Ovens-Murray	5.1	10.4	18.5	1.8	0.1	9.1	205.8	22.7
East Gippsland	—	—	—	—	—	—	—	—
Gippsland	—	3.5	11.9	3.4	—	—	—	—
<b>Victoria</b>								
<b>1997</b>	<b>10.1</b>	<b>331.1</b>	<b>4 595.9</b>	<b>13.9</b>	<b>205.1</b>	<b>1 193.8</b>	<b>88 962.8</b>	<b>74.5</b>
<b>1996</b>	<b>12.7</b>	<b>428.5</b>	<b>6 035.5</b>	<b>14.1</b>	<b>238.3</b>	<b>1 109.6</b>	<b>72 357.9</b>	<b>65.2</b>
<b>1995</b>	<b>21.5</b>	<b>400.5</b>	<b>5 910.0</b>	<b>14.8</b>	<b>241.4</b>	<b>1 092.7</b>	<b>84 253.4</b>	<b>77.1</b>

## PEARS (EXCLUDING NASHI)

Statistical division	Trees under 6 years	Trees 6 years and over	Production	Yield
	'000	'000	tonnes	kg/tree
Melbourne	6.9	38.0	3 263.5	85.8
Barwon	—	—	1.5	—
Western District	—	0.3	6.4	25.6
Central Highlands	2.4	3.6	498.2	140.0
Wimmera	—	0.2	7.6	35.2
Mallee	—	—	0.1	—
Loddon	0.4	14.7	1 004.5	68.4
Goulburn	60.8	1 054.8	141 011.2	133.7
Ovens-Murray	1.1	1.4	25.2	17.9
East Gippsland	—	—	3.8	—
Gippsland	—	2.1	238.0	114.7
<b>Victoria</b>				
<b>1997</b>	<b>71.5</b>	<b>1 115.1</b>	<b>146 060.1</b>	<b>131.0</b>
<b>1996</b>	<b>63.2</b>	<b>1 081.4</b>	<b>135 189.3</b>	<b>125.0</b>
<b>1995</b>	<b>89.5</b>	<b>1 029.1</b>	<b>132 785.9</b>	<b>129.0</b>

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

Statistical division	APRICOTS				CHERRIES			
	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
Melbourne	0.2	0.1	3.1	53.8	27.1	51.1	900.6	17.6
Barwon	—	—	0.4	—	—	—	—	—
Western District	—	—	—	—	—	—	—	—
Central Highlands	3.0	3.8	162.5	42.3	—	2.1	12.1	5.7
Wimmera	0.3	0.8	18.3	22.0	0.4	—	—	—
Mallee	24.9	38.6	753.6	19.5	1.8	1.0	14.4	14.5
Loddon	—	0.2	4.0	17.2	0.5	3.4	30.8	9.1
Goulburn	42.8	157.3	7 983.7	50.4	60.4	43.0	517.9	12.1
Ovens-Murray	—	1.1	6.0	5.4	14.5	26.2	524.0	20.0
East Gippsland	—	—	—	—	—	—	—	—
Gippsland	—	0.2	3.4	20.9	—	0.4	7.5	17.6
<b>Victoria</b>								
<b>1997</b>	<b>71.3</b>	<b>202.2</b>	<b>8 935.0</b>	<b>44.2</b>	<b>104.9</b>	<b>127.2</b>	<b>2 007.3</b>	<b>15.8</b>
<b>1996</b>	<b>74.2</b>	<b>198.2</b>	<b>7 026.3</b>	<b>35.5</b>	<b>101.7</b>	<b>129.7</b>	<b>2 352.9</b>	<b>18.1</b>
<b>1995</b>	<b>71.1</b>	<b>195.2</b>	<b>10 648.7</b>	<b>54.5</b>	<b>89.5</b>	<b>126.0</b>	<b>2 390.7</b>	<b>19.0</b>

Statistical division	NECTARINES				OLIVES			
	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
Melbourne	18.4	14.4	349.8	24.3	0.5	0.3	0.9	3.2
Barwon	—	—	0.1	—	0.9	—	0.4	11.3
Western District	—	0.1	2.0	20.0	—	—	—	—
Central Highlands	3.8	2.7	171.1	64.2	0.2	0.9	—	—
Wimmera	4.0	2.6	114.8	43.8	—	39.4	138.8	3.5
Mallee	167.5	144.2	4 261.2	29.6	1.4	11.0	86.4	7.8
Loddon	—	0.1	0.1	—	1.3	—	1.3	—
Goulburn	76.2	44.4	2 054.6	44.5	2.2	0.8	10.3	13.6
Ovens-Murray	4.0	1.7	36.2	21.3	0.1	—	0.1	—
East Gippsland	0.5	0.3	8.6	28.6	—	—	—	—
Gippsland	0.6	2.7	34.5	13.0	0.2	0.5	2.1	4.4
<b>Victoria</b>								
<b>1997</b>	<b>274.9</b>	<b>213.2</b>	<b>7 033.0</b>	<b>32.6</b>	<b>6.8</b>	<b>52.9</b>	<b>240.3</b>	<b>4.5</b>
<b>1996</b>	<b>256.0</b>	<b>215.9</b>	<b>6 919.3</b>	<b>32.1</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>
<b>1995</b>	<b>228.8</b>	<b>177.0</b>	<b>6 174.5</b>	<b>34.9</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>

(a) For footnote see end of table.

Statistical division	PEACHES				PLUMS			
	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
Melbourne	37.6	51.6	1 217.0	23.6	2.9	6.5	104.3	16.0
Barwon	—	0.4	3.4	8.0	—	0.1	0.7	14.4
Western District	—	—	—	—	—	—	—	—
Central Highlands	6.0	2.7	101.7	38.2	0.7	0.2	8.5	45.8
Wimmera	4.0	1.4	107.0	77.3	2.1	2.9	88.2	31.0
Mallee	85.7	83.8	2 503.9	29.9	81.9	59.7	1 242.9	20.8
Loddon	—	0.7	2.6	3.9	1.1	0.1	8.8	67.9
Goulburn	443.7	455.9	39 228.0	84.9	115.7	80.9	3 032.3	36.8
Ovens-Murray	7.0	9.0	221.9	24.7	—	0.9	4.1	4.8
East Gippsland	1.2	1.2	30.0	25.0	0.1	—	0.4	—
Gippsland	0.5	2.2	71.7	32.0	0.1	1.6	26.2	16.2
<b>Victoria</b>								
<b>1997</b>	<b>585.7</b>	<b>608.9</b>	<b>43 487.2</b>	<b>71.4</b>	<b>204.6</b>	<b>152.7</b>	<b>4 516.4</b>	<b>29.2</b>
<b>1996</b>	<b>526.7</b>	<b>550.5</b>	<b>36 353.2</b>	<b>66.0</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>
<b>1995</b>	<b>532.2</b>	<b>524.7</b>	<b>34 354.4</b>	<b>65.5</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>

Statistical division	PRUNES			
	Trees under 6 years	Trees 6 years and over	Production	Yield
	'000	'000	tonnes	kg/tree
Melbourne	—	—	—	—
Barwon	—	—	—	—
Western District	—	—	—	—
Central Highlands	—	—	—	—
Wimmera	—	0.4	13.6	31.6
Mallee	5.0	3.4	77.0	22.8
Loddon	—	—	—	—
Goulburn	2.4	0.3	10.3	38.0
Ovens-Murray	—	0.1	0.4	8.0
East Gippsland	—	—	—	—
Gippsland	—	—	—	—
<b>Victoria</b>				
<b>1997</b>	<b>7.4</b>	<b>4.1</b>	<b>101.4</b>	<b>24.6</b>
<b>1996</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>
<b>1995</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>

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

Statistical division	ALMONDS				AVOCADOS			
	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield(a) kg/tree	Trees under 6 years '000	Trees 6 years and over '000	Production tonnes	Yield(a) kg/tree
Melbourne	0.2	—	0.1	—	0.4	0.1	0.5	7.3
Barwon	—	—	—	—	—	—	—	—
Western District	—	0.1	0.1	0.7	—	—	—	—
Central Highlands	—	—	—	—	—	—	—	—
Wimmera	—	1.8	0.2	0.1	—	—	—	—
Mallee	22.7	402.6	3 726.3	9.3	29.4	31.9	1 779.2	55.7
Loddon	1.3	1.0	2.3	2.3	—	—	—	—
Goulburn	—	0.4	1.4	4.1	—	—	—	—
Ovens-Murray	0.5	0.7	0.1	0.1	—	—	—	—
East Gippsland	—	—	—	—	0.2	0.1	2.8	56.0
Gippsland	—	—	—	—	—	—	—	—
<b>Victoria</b>								
<b>1997</b>	<b>24.6</b>	<b>406.6</b>	<b>3 730.5</b>	<b>9.2</b>	<b>29.9</b>	<b>32.0</b>	<b>1 782.5</b>	<b>55.6</b>
<b>1996</b>	<b>16.5</b>	<b>399.8</b>	<b>2 907.0</b>	<b>7.3</b>	<b>23.5</b>	<b>28.4</b>	<b>992.9</b>	<b>35.0</b>
<b>1995</b>	<b>10.1</b>	<b>406.1</b>	<b>2 804.9</b>	<b>6.9</b>	<b>12.1</b>	<b>26.0</b>	<b>754.7</b>	<b>29.1</b>

## KIWIFRUIT

Statistical division	Area not yet bearing ha	Area of bearing age ha	Production tonnes	Yield t/ha
Melbourne	0.2	21.5	306.6	14.3
Barwon	—	—	—	—
Western District	0.5	1.0	6.0	6.0
Central Highlands	—	—	—	—
Wimmera	—	—	—	—
Mallee	—	—	—	—
Loddon	—	—	—	—
Goulburn	0.1	275.6	1 428.6	5.2
Ovens-Murray	—	21.3	383.9	18.0
East Gippsland	1.4	7.3	123.6	16.9
Gippsland	—	2.2	6.3	2.9
<b>Victoria</b>				
<b>1997</b>	<b>2.2</b>	<b>328.9</b>	<b>2 254.9</b>	<b>6.9</b>
<b>1996</b>	<b>1.1</b>	<b>160.3</b>	<b>2 062.8</b>	<b>12.9</b>
<b>1995</b>	<b>18.1</b>	<b>284.1</b>	<b>2 731.3</b>	<b>9.6</b>

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

## BLUEBERRIES..... RASPBERRIES.....

Statistical division	Area not yet bearing	Area of bearing age	Production	Yield	Area not yet bearing	Area of bearing age	Production	Yield
	ha	ha	tonnes	t/ha	ha	ha	tonnes	t/ha
Melbourne	—	8.8	19.2	2.2	5.8	37.8	88.9	2.4
Barwon	—	0.1	1.0	10.0	—	0.5	0.1	0.2
Western District	—	—	—	—	—	—	—	—
Central Highlands	—	1.0	5.6	5.6	—	2.0	2.2	1.1
Wimmera	—	—	—	—	—	—	—	—
Mallee	—	—	—	—	—	—	—	—
Loddon	—	0.3	0.1	0.3	—	2.8	3.3	1.2
Goulburn	6.0	10.3	18.8	1.8	3.3	10.5	26.1	2.5
Ovens-Murray	2.5	6.5	29.0	4.5	1.7	7.9	16.6	2.1
East Gippsland	—	—	—	—	—	3.6	16.3	4.5
Gippsland	0.6	8.6	24.1	2.8	3.0	24.8	55.0	2.2
<b>Victoria</b>								
<b>1997</b>	<b>9.1</b>	<b>35.6</b>	<b>97.8</b>	<b>2.7</b>	<b>13.8</b>	<b>89.9</b>	<b>208.4</b>	<b>2.3</b>
<b>1996</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>14.5</b>	<b>89.6</b>	<b>219.7</b>	<b>2.5</b>
<b>1995</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>n.c.</b>	<b>33.8</b>	<b>87.2</b>	<b>224.1</b>	<b>2.6</b>

## STRAWBERRIES.....

Statistical division	Area not yet bearing	Area of bearing age	Production	Yield
	ha	ha	tonnes	t/ha
Melbourne	46.5	180.4	2 879.7	16.0
Barwon	0.2	1.0	10.0	10.0
Western District	2.5	4.1	64.6	15.8
Central Highlands	—	0.5	0.9	1.8
Wimmera	—	—	—	—
Mallee	0.1	2.0	10.8	5.4
Loddon	—	—	—	—
Goulburn	3.0	14.7	234.9	16.0
Ovens-Murray	—	7.3	40.9	5.6
East Gippsland	—	2.1	25.9	12.3
Gippsland	2.5	8.9	108.0	12.1
<b>Victoria</b>				
<b>1997</b>	<b>54.8</b>	<b>221.0</b>	<b>3 375.8</b>	<b>15.3</b>
<b>1996</b>	<b>56.0</b>	<b>209.3</b>	<b>3 279.2</b>	<b>15.7</b>
<b>1995</b>	<b>56.4</b>	<b>208.5</b>	<b>2 921.1</b>	<b>14.0</b>

# 27

## GROSS VALUE OF CITRUS, POME AND OTHER FRUIT, Years ended 31 March

	1995	1996r	1997p
	\$m	\$m	\$m
Apples	97.6	98.0	124.4
Apricots	5.6	4.8	6.5
Avocados	2.3	2.8	3.3
Cherries	8.8	9.2	8.3
Grapes	144.5	227.7	214.7
Lemons and limes	4.0	3.7	3.1
Mandarins	5.4	4.8	7.0
Nectarines	11.2	12.4	12.3
Oranges	42.7	40.7	48.3
Peaches	23.3	24.5	27.4
Pears	59.3	74.2	87.1
Plums and prunes	4.7	5.2	5.0
Strawberries	12.6	11.1	13.3
Other, including nuts	47.5	52.5	49.0
<b>Total</b>	<b>469.5</b>	<b>571.6</b>	<b>609.7</b>

# 28

## 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
Melbourne	248.9	162.3	930.0	4 021.5	30.8	29.9	4 082.2
Barwon	60.7	19.2	129.1	485.0	—	—	485.0
Western District	10.6	5.9	92.5	339.3	134.6	17.3	491.2
Central Highlands	149.6	79.0	346.4	1 779.2	—	—	1 779.2
Wimmera	39.6	17.6	192.5	1 588.8	—	47.5	1 636.3
Mallee	1 558.9	1 033.1	17 196.3	155 932.9	106 417.0	40 913.9	303 263.8
Loddon	47.1	46.0	271.8	828.7	11.5	13.2	853.4
Goulburn	169.5	104.3	967.1	6 104.4	1.3	219.2	6 324.9
Ovens-Murray	114.5	105.2	1 097.3	10 261.1	66.7	11.6	10 339.4
East Gippsland	2.8	3.7	21.6	48.5	—	—	48.5
Gippsland	13.8	25.8	93.1	382.8	—	—	382.8
<b>Victoria</b>							
<b>1997</b>	<b>2 416.0</b>	<b>1 602.1</b>	<b>21 337.7</b>	<b>181 772.2</b>	<b>106 661.9</b>	<b>41 252.6</b>	<b>329 686.7</b>
<b>1996</b>	<b>1 505.9</b>	<b>1 761.1</b>	<b>19 820.8</b>	<b>199 140.9</b>	<b>193 028.0</b>	<b>34 521.6</b>	<b>426 690.5</b>
<b>1995</b>	<b>1 093.8</b>	<b>1 509.0</b>	<b>18 988.6</b>	<b>137 613.1</b>	<b>112 981.3</b>	<b>26 840.4</b>	<b>277 434.8</b>



	Units	1995	1996	1997
<b>Asparagus</b>				
area	ha	1 174.1	1 116.4	1 275.6
production	t	3 112.8	3 921.2	4 251.6
yield	t/ha	2.7	3.5	3.3
<b>Beans — French and runner</b>				
area	ha	654.7	671.5	633.2
production	t	2 574.9	2 219.7	2 038.1
yield	t/ha	3.9	3.3	3.2
<b>Beetroot</b>				
area	ha	74.5	66.3	50.5
production	t	879.1	824.4	664.4
yield	t/ha	11.8	12.4	13.2
<b>Broccoli</b>				
area	ha	2 922.7	3 304.2	3 384.4
production	t	14 582.7	17 349.1	19 197.8
yield	t/ha	5.0	5.3	5.6
<b>Brussels sprouts</b>				
area	ha	114.8	121.1	92.8
production	t	2 183.7	3 015.7	2 153.7
yield	t/ha	19.0	24.9	23.2
<b>Cabbages</b>				
area	ha	749.9	863.9	690.9
production	t	27 875.2	30 603.0	23 221.4
yield	t/ha	37.2	35.4	33.6
<b>Capsicum, chillies and peppers</b>				
area	ha	204.7	211.4	215.1
production	t	3 106.3	3 233.0	3 352.8
yield	t/ha	15.2	15.3	15.6
<b>Carrots</b>				
area	ha	2 252.9	2 736.4	2 620.2
production	t	74 637.1	91 122.5	99 274.3
yield	t/ha	33.1	33.3	37.9
<b>Cauliflowers</b>				
area	ha	1 264.2	1 249.2	1 242.5
production	t	19 637.7	20 780.1	17 408.5
yield	t/ha	15.5	16.6	14.0
<b>Celery</b>				
area	ha	380.0	456.5	514.0
production	t	17 257.0	21 064.5	22 402.7
yield	t/ha	45.4	46.1	43.6
<b>Chinese cabbages</b>				
area	ha	91.5	90.4	104.6
production	t	1 249.1	1 233.6	899.3
yield	t/ha	13.7	13.6	8.6
<b>Cucumbers</b>				
area	ha	40.3	33.5	36.8
production	t	1 124.4	688.9	795.1
yield	t/ha	27.9	20.6	21.6
<b>Green peas (pod weight)</b>				
area	ha	292.8	180.7	156.9
production	t	698.8	406.8	220.5
yield	t/ha	2.4	2.3	1.4
<b>Leeks</b>				
area	ha	122.2	112.3	136.0
production	t	1 704.0	2 228.5	2 649.2
yield	t/ha	13.9	19.8	19.5
<b>Lettuces</b>				
area	ha	1 638.5	2 071.2	1 968.8
production	t	34 155.0	45 785.4	36 556.7
yield	t/ha	20.8	22.1	18.6
<b>Marrows and squashes</b>				
area	ha	19.7	31.2	28.8
production	t	115.4	168.0	103.9
yield	t/ha	5.9	5.4	3.6

	Units	1995	1996	1997
<b>Melons — rock and cantaloupe</b>				
area	ha	256.1	240.3	338.0
production	t	6 060.5	5 310.2	7 855.9
yield	t/ha	23.7	22.1	23.2
<b>Melons — water</b>				
area	ha	30.2	35.4	56.8
production	t	504.9	786.4	1 155.2
yield	t/ha	16.7	22.2	20.3
<b>Melons — n.e.c.</b>				
area	ha	n.c.	n.c.	15.0
production	t	n.c.	n.c.	201.9
yield	t/ha	n.c.	n.c.	13.5
<b>Mushrooms</b>				
area	ha	69.7	70.4	61.0
production	t	13 545.0	13 834.4	14 236.8
yield	t/ha	194.3	196.5	233.4
<b>Onions — white and brown</b>				
area	ha	511.5	545.0	528.9
production	t	15 427.1	17 604.3	15 614.6
yield	t/ha	30.2	32.3	29.5
<b>Parsley</b>				
area	ha	78.2	76.6	82.1
production	t	464.7	409.7	514.8
yield	t/ha	5.9	5.3	6.3
<b>Parsnips</b>				
area	ha	237.8	283.8	285.6
production	t	3 843.2	6 708.0	7 238.0
yield	t/ha	16.2	23.6	25.3
<b>Potatoes</b>				
area	ha	10 135.3	11 456.5	11 351.8
production	t	279 876.1	335 648.8	315 727.4
yield	t/ha	27.6	29.3	27.8
<b>Pumpkins</b>				
area	ha	393.7	374.4	312.8
production	t	6 271.1	5 772.3	4 595.2
yield	t/ha	15.9	15.4	14.7
<b>Snow Peas</b>				
area	ha	n.c.	n.c.	103.3
production	t	n.c.	n.c.	140.4
yield	t/ha	n.c.	n.c.	1.4
<b>Spring onions</b>				
area	ha	199.0	198.4	217.3
production	t	768.9	680.1	964.8
yield	t/ha	3.9	3.4	4.4
<b>Swedes</b>				
area	ha	18.6	25.8	21.4
production	t	348.0	288.5	416.0
yield	t/ha	18.7	11.2	19.4
<b>Sweet corn</b>				
area	ha	600.1	711.4	743.4
production	t	7 391.8	7 348.8	7 366.0
yield	t/ha	12.3	10.3	9.9
<b>Tomatoes</b>				
area	ha	2 811.7	2 990.5	2 660.5
production	t	139 540.9	171 805.1	167 562.8
yield	t/ha	49.6	57.5	63.0
<b>Zucchini</b>				
area	ha	117.8	139.0	141.7
production	t	666.5	1 068.2	930.8
yield	t/ha	5.7	7.7	6.6

	Units	Melbourne	Barwon	Western District	Central Highlands	Wimmera	Mallee
Asparagus							
area	ha	848.7	—	—	—	—	239.1
production	t	3 088.3	—	—	—	—	674.2
yield	t/ha	3.6	—	—	—	—	2.8
Beans — French and runner							
area	ha	24.4	0.1	—	20.0	—	47.9
production	t	105.3	0.4	—	120.0	—	190.3
yield	t/ha	4.3	4.0	—	6.0	—	4.0
Beetroot							
area	ha	49.0	—	—	—	—	—
production	t	656.4	—	—	—	—	—
yield	t/ha	13.4	—	—	—	—	—
Broccoli							
area	ha	1 628.0	130.6	17.8	81.7	1.0	371.2
production	t	10 594.4	443.7	96.6	396.0	4.7	3 393.7
yield	t/ha	6.5	3.4	5.4	4.8	4.7	9.1
Brussels sprouts							
area	ha	92.8	—	—	—	—	—
production	t	2 153.7	—	—	—	—	—
yield	t/ha	23.2	—	—	—	—	—
Cabbages							
area	ha	355.1	16.5	—	45.7	1.5	20.7
production	t	10 020.5	344.0	—	1 491.2	42.0	377.8
yield	t/ha	28.2	20.8	—	32.6	28.0	18.3
Capsicum, chillies and peppers							
area	ha	30.9	0.5	—	—	—	37.5
production	t	249.8	1.5	—	—	—	388.2
yield	t/ha	8.1	3.0	—	—	—	10.4
Carrots							
area	ha	543.0	0.4	50.3	47.0	2.0	1 112.9
production	t	17 842.3	10.8	2 354.0	2 405.0	54.0	49 900.0
yield	t/ha	32.9	27.0	46.8	51.2	27.0	44.8
Cauliflowers							
area	ha	1 004.5	25.0	—	—	1.5	10.6
production	t	14 194.1	450.0	—	—	20.3	53.5
yield	t/ha	14.1	18.0	—	—	13.5	5.0
Celery							
area	ha	512.0	0.5	—	—	—	0.5
production	t	22 377.2	15.5	—	—	—	2.0
yield	t/ha	43.7	31.0	—	—	—	4.0
Chinese cabbages							
area	ha	56.6	—	—	6.0	—	5.0
production	t	427.8	—	—	25.0	—	20.0
yield	t/ha	7.6	—	—	4.2	—	4.0
Cucumber							
area	ha	6.8	—	—	—	0.1	3.2
production	t	32.6	—	—	—	0.6	10.2
yield	t/ha	4.8	—	—	—	6.0	3.2
Green peas (pod weight)							
area	ha	9.1	70.8	—	8.0	—	4.5
production	t	11.0	96.1	—	—	—	11.0
yield	t/ha	1.2	1.4	—	—	—	2.4
Leeks							
area	ha	127.7	—	—	—	—	—
production	t	2 476.1	—	—	—	—	—
yield	t/ha	19.4	—	—	—	—	—
Lettuces							
area	ha	1 586.6	38.6	—	68.0	—	114.3
production	t	28 656.3	495.0	—	1 702.0	—	2 988.0
yield	t/ha	18.1	12.8	—	25.0	—	26.1
Marrows and squashes							
area	ha	5.3	—	—	—	—	10.5
production	t	9.3	—	—	—	—	33.4
yield	t/ha	1.8	—	—	—	—	3.2

	Units	Loddon	Goulburn	Ovens-Murray	East Gippsland	Gippsland
<b>Asparagus</b>						
area	ha	—	8.4	17.0	113.4	49.0
production	t	—	22.7	11.5	402.9	52.0
yield	t/ha	—	2.7	0.7	3.6	1.1
<b>Beans — French and runner</b>						
area	ha	—	2.7	—	526.1	12.0
production	t	—	10.0	—	1 564.2	48.0
yield	t/ha	—	3.7	—	3.0	4.0
<b>Beetroot</b>						
area	ha	—	1.5	—	—	—
production	t	—	8.0	—	—	—
yield	t/ha	—	5.3	—	—	—
<b>Broccoli</b>						
area	ha	1.0	7.0	2.5	1 131.6	12.0
production	t	5.0	12.4	6.9	4 207.9	36.6
yield	t/ha	5.0	1.8	2.8	3.6	3.1
<b>Brussels sprouts</b>						
area	ha	—	—	—	—	—
production	t	—	—	—	—	—
yield	t/ha	—	—	—	—	—
<b>Cabbages</b>						
area	ha	3.5	1.0	1.3	195.6	50.0
production	t	5.3	28.0	36.4	8 198.2	2 678.0
yield	t/ha	0.1	28.0	28.0	41.9	53.6
<b>Capsicum, chillies and peppers</b>						
area	ha	0.5	42.6	19.5	75.4	8.2
production	t	5.5	730.2	446.0	1 441.1	90.5
yield	t/ha	11.0	17.1	22.9	12.5	11.0
<b>Carrots</b>						
area	ha	—	175.6	—	380.1	308.9
production	t	—	5 267.3	—	12 369.6	9 071.3
yield	t/ha	—	30.0	—	32.5	29.4
<b>Cauliflowers</b>						
area	ha	7.0	1.0	11.0	156.9	25.0
production	t	116.0	13.5	103.0	2 100.6	357.5
yield	t/ha	16.6	13.5	9.4	13.4	14.3
<b>Celery</b>						
area	ha	—	—	—	1.0	—
production	t	—	—	—	8.0	—
yield	t/ha	—	—	—	8.0	—
<b>Chinese cabbages</b>						
area	ha	—	3.5	—	10.0	23.5
production	t	—	17.5	—	120.0	289.0
yield	t/ha	—	5.0	—	12.0	12.3
<b>Cucumber</b>						
area	ha	—	—	—	26.3	0.4
production	t	—	0.1	—	747.5	4.0
yield	t/ha	—	—	—	28.4	10.0
<b>Green peas (pod weight)</b>						
area	ha	—	2.4	—	6.0	56.1
production	t	—	3.6	—	16.3	82.4
yield	t/ha	—	1.5	—	2.7	1.5
<b>Leeks</b>						
area	ha	—	3.5	—	4.8	—
production	t	—	25.0	—	148.1	—
yield	t/ha	—	7.1	—	30.9	—
<b>Lettuces</b>						
area	ha	4.0	0.3	—	157.0	—
production	t	15.0	37.4	—	2 663.0	—
yield	t/ha	3.8	124.7	—	17.0	—
<b>Marrows and squashes</b>						
area	ha	—	12.0	1.0	—	—
production	t	—	57.5	3.8	—	—
yield	t/ha	—	4.8	3.8	—	—

	Units	Melbourne	Barwon	Western District	Central Highlands	Wimmera	Mallee
<b>Melons — rock and cantaloupe</b>							
area	ha	—	—	—	—	3.0	335.0
production	t	—	—	—	—	30.0	7 825.9
yield	t/ha	—	—	—	—	10.0	23.4
<b>Melons — water</b>							
area	ha	—	—	—	—	—	53.6
production	t	—	—	—	—	—	1 105.2
yield	t/ha	—	—	—	—	—	20.6
<b>Melons — n.e.c.</b>							
area	ha	8.5	—	—	—	—	6.5
production	t	122.0	—	—	—	—	79.9
yield	t/ha	14.4	—	—	—	—	12.3
<b>Mushrooms</b>							
area	ha	53.9	0.2	—	—	—	4.0
production	t	13 055.7	90.0	—	—	—	780.0
yield	t/ha	242.2	450.0	—	—	—	195.0
<b>Onions — white and brown</b>							
area	ha	231.4	25.5	52.4	55.0	0.2	38.9
production	t	7 941.5	582.0	1 145.0	230.0	2.5	1 871.1
yield	t/ha	34.3	22.8	21.9	4.2	12.5	48.1
<b>Parsley</b>							
area	ha	80.1	—	—	—	—	0.1
production	t	505.2	—	—	—	—	—
yield	t/ha	6.3	—	—	—	—	—
<b>Parsnips</b>							
area	ha	284.6	—	—	—	—	—
production	t	7 236.5	—	—	—	—	—
yield	t/ha	25.4	—	—	—	—	—
<b>Potatoes</b>							
area	ha	2 373.6	1 022.7	587.9	2 617.3	83.0	431.3
production	t	59 099.1	23 831.0	14 679.5	90 702.1	2 760.0	8 502.0
yield	t/ha	24.9	23.3	25.0	34.7	33.3	19.7
<b>Pumpkins</b>							
area	ha	79.7	7.2	2.0	54.0	10.2	109.4
production	t	1 200.0	74.9	24.0	937.0	45.0	1 786.1
yield	t/ha	15.1	10.4	12.0	17.4	4.4	16.3
<b>Snow peas</b>							
area	ha	2.6	1.0	—	—	—	9.3
production	t	5.0	1.0	—	—	—	7.1
yield	t/ha	1.9	1.0	—	—	—	0.8
<b>Spring onions</b>							
area	ha	212.4	—	—	—	—	—
production	t	951.8	—	—	—	—	—
yield	t/ha	4.5	—	—	—	—	—
<b>Swedes</b>							
area	ha	8.3	—	—	—	—	—
production	t	95.0	—	—	—	—	—
yield	t/ha	11.4	—	—	—	—	—
<b>Sweet corn</b>							
area	ha	117.9	0.5	—	6.0	—	90.1
production	t	831.8	2.5	—	10.0	—	475.4
yield	t/ha	7.1	5.0	—	1.7	—	5.3
<b>Tomatoes</b>							
area	ha	16.6	4.5	—	2.0	5.8	53.1
production	t	429.2	292.7	—	5.0	152.5	1 867.6
yield	t/ha	25.9	65.0	—	2.5	26.3	35.2
<b>Zucchini</b>							
area	ha	35.4	5.4	0.4	1.5	—	69.6
production	t	260.3	35.6	2.6	3.0	—	370.1
yield	t/ha	7.4	6.6	6.5	2.0	—	5.3

	Units	Loddon	Goulburn	Ovens-Murray	East Gippsland	Gippsland
.....						
Melons — rock and cantaloupe						
area	ha	—	—	—	—	—
production	t	—	—	—	—	—
yield	t/ha	—	—	—	—	—
Melons — water						
area	ha	—	1.0	2.2	—	—
production	t	—	—	50.0	—	—
yield	t/ha	—	—	22.7	—	—
Melons — n.e.c.						
area	ha	—	—	—	—	—
production	t	—	—	—	—	—
yield	t/ha	—	—	—	—	—
Mushrooms						
area	ha	1.8	1.1	—	—	—
production	t	81.1	230.0	—	—	—
yield	t/ha	45.1	209.1	—	—	—
Onions — white and brown						
area	ha	2.6	50.2	—	1.2	71.5
production	t	60.0	2 001.5	—	21.0	1 760.0
yield	t/ha	23.1	39.9	—	17.5	24.6
Parsley						
area	ha	—	1.0	—	0.9	—
production	t	—	5.6	—	4.0	—
yield	t/ha	—	5.6	—	4.4	—
Parsnips						
area	ha	—	—	—	—	1.0
production	t	—	—	—	—	1.5
yield	t/ha	—	—	—	—	1.5
Potatoes						
area	ha	30.6	570.0	12.0	180.7	3 442.7
production	t	450.6	15 665.8	212.0	4 249.5	95 575.8
yield	t/ha	14.7	27.5	17.7	23.5	27.8
Pumpkins						
area	ha	1.5	20.0	12.5	9.3	7.0
production	t	18.0	207.0	109.0	62.2	132.0
yield	t/ha	12.0	10.4	8.7	6.7	18.9
Snow Peas						
area	ha	—	0.5	—	22.1	67.8
production	t	—	0.5	—	45.1	81.8
yield	t/ha	—	0.9	—	2.0	1.2
Spring onions						
area	ha	—	3.0	—	1.6	0.3
production	t	—	10.5	—	2.5	—
yield	t/ha	—	3.5	—	1.6	—
Swedes						
area	ha	—	3.5	—	—	9.6
production	t	—	50.0	—	—	271.0
yield	t/ha	—	14.3	—	—	28.2
Sweet corn						
area	ha	4.0	119.0	0.3	403.6	2.0
production	t	60.0	988.0	3.0	4 975.3	20.0
yield	t/ha	15.0	8.3	10.0	12.3	10.0
Tomatoes						
area	ha	637.0	1 940.6	0.1	0.7	0.1
production	t	45 733.2	118 997.6	0.2	76.8	8.0
yield	t/ha	71.8	61.3	2.0	109.7	80.0
Zucchini						
area	ha	—	25.9	1.0	1.0	1.5
production	t	—	240.8	6.5	0.4	11.5
yield	t/ha	—	9.3	6.5	0.4	7.7
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	1995	1996 <sup>r</sup>	1997 <sup>p</sup>
	\$m	\$m	\$m
Asparagus	14.6	14.8	18.3
Beans — French and runner	4.7	3.6	4.4
Beetroot	0.7	0.2	0.3
Broccoli	25.2	24.2	28.0
Cabbages and brussels sprouts	14.5	14.6	11.5
Capsicum, chillies and peppers	4.8	4.2	3.4
Carrots	39.3	52.4	61.2
Cauliflowers	9.6	9.8	11.5
Celery	9.7	11.5	16.5
Cucumbers	1.0	0.8	1.1
Green peas (pod weight)	1.5	0.6	0.4
Leeks	5.1	5.7	4.9
Lettuces	21.3	27.7	20.7
Melons — rock and cantaloupe	4.3	3.6	6.8
Melons — water	0.1	0.2	0.7
Mushrooms	56.7	56.6	59.7
Onions — white and brown	6.1	7.7	5.8
Parsley	0.9	1.1	1.8
Parsnips	4.3	7.7	7.4
Potatoes	105.9	114.2	123.5
Pumpkins	2.5	1.5	1.1
Swedes	0.2	0.2	0.1
Sweet corn	8.0	6.4	7.2
Tomatoes	32.1	21.8	36.6
Zucchini	0.7	1.1	2.3
Other vegetables	11.3	13.3	9.9
<b>Total</b>	<b>385.1</b>	<b>405.4</b>	<b>445.1</b>

Statistical division	Nurseries	Cut flowers	Cultivated turf	Total
	ha	ha	ha	ha
Melbourne	675.7	866.7	194.0	1 736.4
Barwon	45.7	215.1	—	260.8
Western District	35.9	22.4	—	58.3
Central Highlands	36.0	19.1	18.0	73.1
Wimmera	0.3	464.9	2.0	467.2
Mallee	95.9	60.2	1.4	157.5
Loddon	47.1	12.2	—	59.3
Goulburn	80.9	85.4	136.2	302.5
Ovens-Murray	33.4	12.6	—	46.0
East Gippsland	6.0	95.4	—	101.4
Gippsland	43.8	194.0	—	237.8
<b>Victoria</b>				
<b>1997</b>	<b>1 100.7</b>	<b>2 048.0</b>	<b>351.6</b>	<b>3 500.3</b>
<b>1996</b>	<b>1 306.9</b>	<b>1 713.4</b>	<b>305.6</b>	<b>3 325.9</b>
<b>1995</b>	<b>1 153.1</b>	<b>1 911.3</b>	<b>260.7</b>	<b>3 325.1</b>



# 33

## 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	%
Melbourne	3.7	68.6	39.4	32.5	144.3	5.5
Barwon	3.5	67.1	39.2	20.5	130.3	5.0
Western District	15.8	302.9	149.6	111.1	579.4	22.1
Central Highlands	2.9	59.2	34.6	17.9	114.5	4.4
Wimmera	1.7	32.4	19.3	10.3	63.7	2.4
Mallee	1.9	36.1	27.7	24.7	90.3	3.4
Loddon	2.7	55.4	34.3	17.8	110.2	4.2
Goulburn	11.3	198.1	126.0	81.5	417.0	15.9
Ovens-Murray	6.9	152.4	91.2	62.6	313.1	11.9
East Gippsland	8.2	171.7	96.1	47.4	323.4	12.3
Gippsland	7.6	141.6	88.7	102.8	340.7	13.0
<b>Victoria</b>						
1997	<b>66.2</b>	<b>1 285.6</b>	<b>746.0</b>	<b>529.2</b>	<b>2 627.0</b>	<b>100.0</b>
1996	<b>69.7</b>	<b>1 287.2</b>	<b>749.0</b>	<b>608.1</b>	<b>2 714.1</b>	<b>100.0</b>
1995	<b>72.3</b>	<b>1 230.7</b>	<b>761.1</b>	<b>598.9</b>	<b>2 663.0</b>	<b>100.0</b>

# 34

## 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 total meat cattle establishments</i>
	no.	no.	no.	no.	no.	%
Melbourne	811	1 028	876	759	1 307	6.6
Barwon	783	920	832	648	1 135	5.8
Western District	2 436	2 724	2 311	2 094	3 247	16.5
Central Highlands	731	911	811	628	1 030	5.2
Wimmera	513	653	568	418	731	3.7
Mallee	672	736	720	561	947	4.8
Loddon	830	1 019	931	686	1 178	6.0
Goulburn	2 535	2 844	2 653	2 241	3 716	18.8
Ovens-Murray	1 462	1 640	1 457	1 264	1 927	9.8
East Gippsland	1 501	1 650	1 506	1 236	1 943	9.9
Gippsland	1 715	1 840	1 764	1 696	2 555	13.0
<b>Victoria</b>						
1997	<b>13 989</b>	<b>15 965</b>	<b>14 429</b>	<b>12 231</b>	<b>19 716</b>	<b>100.0</b>
1996	<b>14 330</b>	<b>16 107</b>	<b>15 058</b>	<b>12 870</b>	<b>20 151</b>	<b>100.0</b>
1995	<b>14 892</b>	<b>16 166</b>	<b>15 773</b>	<b>12 470</b>	<b>20 642</b>	<b>100.0</b>

Herd size	1996		1997	
	<i>Establishments</i>	<i>Percentage of meat cattle establishments</i>	<i>Establishments</i>	<i>Percentage of meat cattle establishments</i>
	no.	%	no.	%
1-29	4 492	22.3	4 607	23.4
30-49	2 909	14.4	2 828	14.3
50-69	2 312	11.5	2 322	11.8
70-99	2 492	12.4	2 344	11.9
100-149	2 614	13.0	2 581	13.1
150-199	1 544	7.7	1 425	7.2
200-299	1 738	8.6	1 621	8.2
300-399	779	3.9	754	3.8
400-499	439	2.2	412	2.1
500-699	445	2.2	427	2.2
700-999	225	1.1	226	1.1
1,000-1,499	111	0.6	106	0.5
1,500-1,999	23	0.1	29	0.1
2,000-4,999	24	0.1	30	0.2
5,000-9,999	1	—	2	—
10,000 and over	3	—	2	—
<b>Total</b>	<b>20 151</b>	<b>100.0</b>	<b>19 716</b>	<b>100.0</b>

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	65.0	2.4	62.3	2.4
30-49	112.6	4.1	109.1	4.2
50-69	135.4	5.0	135.6	5.2
70-99	206.8	7.6	195.0	7.4
100-149	317.0	11.7	312.9	11.9
150-199	264.7	9.8	245.3	9.3
200-299	418.7	15.4	391.3	14.9
300-399	267.4	9.9	255.7	9.7
400-499	194.6	7.2	182.2	6.9
500-699	258.1	9.5	249.2	9.5
700-999	186.9	6.9	187.3	7.1
1,000-1,499	135.3	5.0	125.9	4.8
1,500-1,999	40.0	1.5	48.8	1.9
2,000-4,999	62.6	2.3	84.6	3.2
5,000-9,999	5.2	0.2	14.0	0.5
10,000 and over	43.8	1.6	27.8	1.1
<b>Total</b>	<b>2 714.1</b>	<b>100.0</b>	<b>2 627.0</b>	<b>100.0</b>

# 36

## MILK CATTLE NUMBERS, At 31 March 1997

Statistical division	Cows in milk and dry	Other milk cattle	Total milk cattle(a)	Percentage of total milk cattle herd
	'000	'000	'000	%
Melbourne	29.0	13.9	42.9	2.4
Barwon	76.3	33.0	109.3	6.1
Western District	287.9	121.7	409.6	23.0
Central Highlands	5.1	3.4	8.6	0.5
Wimmera	1.4	1.4	2.7	0.2
Mallee	70.8	33.5	104.3	5.8
Loddon	20.7	11.3	32.0	1.8
Goulburn	326.5	147.8	474.3	26.6
Ovens-Murray	46.0	20.4	66.4	3.7
East Gippsland	126.8	54.7	181.5	10.2
Gippsland	238.4	113.6	352.0	19.7
<b>Victoria</b>				
<b>1997</b>	<b>1 228.9</b>	<b>554.8</b>	<b>1 783.6</b>	<b>100.0</b>
<b>1996</b>	<b>1 160.8</b>	<b>520.9</b>	<b>1 681.8</b>	<b>100.0</b>
<b>1995</b>	<b>1 113.1</b>	<b>508.6</b>	<b>1 621.7</b>	<b>100.0</b>

(a) Excludes house cows and heifers.

# 37

## 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 milk cattle establishments
	no.	no.	no.	%
Melbourne	262	251	290	3.4
Barwon	493	491	528	6.2
Western District	1 653	1 592	1 749	20.4
Central Highlands	72	66	86	1.0
Wimmera	41	39	57	0.7
Mallee	444	430	479	5.6
Loddon	151	152	179	2.1
Goulburn	2 121	2 159	2 336	27.2
Ovens-Murray	359	352	388	4.5
East Gippsland	729	720	775	9.0
Gippsland	1 609	1 610	1 718	20.0
<b>Victoria</b>				
<b>1997</b>	<b>7 934</b>	<b>7 862</b>	<b>8 585</b>	<b>100.0</b>
<b>1996</b>	<b>7 770</b>	<b>7 601</b>	<b>8 471</b>	<b>100.0</b>
<b>1995</b>	<b>7 752</b>	<b>7 621</b>	<b>8 367</b>	<b>100.0</b>

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

Herd size	1996.....		1997.....	
	Establishments	Percentage of milk cattle establishments	Establishments	Percentage of milk cattle establishments
	no.	%	no.	%
1-49	820	9.7	851	9.9
50-99	1 008	11.9	921	10.7
100-149	1 585	18.7	1 494	17.4
150-199	1 668	19.7	1 644	19.1
200-249	1 215	14.3	1 232	14.4
250-299	716	8.5	821	9.6
300-349	528	6.2	524	6.1
350-399	268	3.2	324	3.8
400-499	343	4.0	366	4.3
500 and over	320	3.8	408	4.8
<b>Total</b>	<b>8 471</b>	<b>100.0</b>	<b>8 585</b>	<b>100.0</b>

Herd size	1996.....		1997.....	
	Number of milk cattle	Percentage of total milk cattle	Number of milk cattle	Percentage of total milk cattle
	'000	%	'000	%
1-49	18.7	1.1	18.5	1.0
50-99	76.7	4.6	70.0	3.9
100-149	197.1	11.7	186.4	10.5
150-199	287.6	17.1	283.3	15.9
200-249	269.4	16.0	272.1	15.3
250-299	194.0	11.5	221.9	12.4
300-349	168.7	10.0	167.4	9.4
350-399	99.1	5.9	120.1	6.7
400-499	150.2	8.9	160.1	9.0
500 and over	220.4	13.1	283.8	15.9
<b>Total</b>	<b>1 681.8</b>	<b>100.0</b>	<b>1 783.6</b>	<b>100.0</b>

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

# 39

## 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	%
Melbourne	56.7	45.4	59.8	161.9	0.7
Barwon	628.7	356.7	548.3	1 533.7	6.9
Western District	2 913.1	1 456.3	2 039.0	6 408.3	28.7
Central Highlands	1 293.2	738.1	1 298.5	3 329.9	14.9
Wimmera	1 566.3	870.2	1 102.6	3 539.2	15.9
Mallee	734.7	373.7	206.7	1 315.2	5.9
Loddon	934.3	527.1	530.4	1 991.8	8.9
Goulburn	1 113.7	516.3	753.2	2 383.2	10.7
Ovens-Murray	187.6	80.8	106.3	374.7	1.7
East Gippsland	427.5	241.9	386.0	1 055.4	4.7
Gippsland	151.8	46.5	33.1	231.4	1.0
<b>Victoria</b>					
<b>1997</b>	<b>10 007.6</b>	<b>5 253.2</b>	<b>7 063.8</b>	<b>22 324.7</b>	<b>100.0</b>
<b>1996</b>	<b>9 788.5</b>	<b>4 836.1</b>	<b>7 349.2</b>	<b>21 973.8</b>	<b>100.0</b>
<b>1995</b>	<b>n.c.</b>	<b>4 705.6</b>	<b>n.c.</b>	<b>21 360.8</b>	<b>100.0</b>

# 40

## 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 sheep and lamb establishments</i>
	no.	no.	no.	no.	%
Melbourne	197	128	197	236	1.6
Barwon	777	703	803	865	6.0
Western District	2 397	2 224	2 398	2 575	18.0
Central Highlands	1 282	1 214	1 346	1 470	10.3
Wimmera	2 079	1 929	2 190	2 504	17.5
Mallee	1 235	1 135	1 185	1 402	9.8
Loddon	1 292	1 161	1 356	1 483	10.4
Goulburn	1 795	1 542	1 892	2 086	14.6
Ovens-Murray	467	393	485	542	3.8
East Gippsland	644	580	664	719	5.0
Gippsland	398	293	370	445	3.1
<b>Victoria</b>					
<b>1997</b>	<b>12 563</b>	<b>11 302</b>	<b>12 886</b>	<b>14 327</b>	<b>100.0</b>
<b>1996</b>	<b>12 634</b>	<b>11 007</b>	<b>13 309</b>	<b>14 514</b>	<b>100.0</b>
<b>1995</b>	<b>n.c.</b>	<b>10 900</b>	<b>n.c.</b>	<b>14 442</b>	<b>100.0</b>

Flock size	1996		1997	
	<i>Establishments</i>	<i>Percentage of sheep and lamb establishments</i>	<i>Establishments</i>	<i>Percentage of sheep and lamb establishments</i>
	no.	%	no.	%
1-499	4 745	32.7	4 619	32.2
500-999	3 104	21.4	2 945	20.6
1 000-1 499	1 964	13.5	1 991	13.9
1 500-1 999	1 274	8.8	1 258	8.8
2 000-2 499	884	6.1	895	6.2
2 500-2 999	593	4.1	640	4.5
3 000-3 999	789	5.4	787	5.5
4 000-4 999	410	2.8	430	3.0
5 000-5 999	257	1.8	256	1.8
6 000-6 999	149	1.0	130	0.9
7 000-7 999	75	0.5	98	0.7
8 000-8 999	78	0.5	73	0.5
9 000-9 999	38	0.3	43	0.3
10 000 and over	154	1.1	162	1.1
<b>Total</b>	<b>14 514</b>	<b>100.0</b>	<b>14 327</b>	<b>100.0</b>

Flock size	1996		1997	
	<i>Number of sheep and lambs</i>	<i>Percentage of total sheep and lambs</i>	<i>Number of sheep and lambs</i>	<i>Percentage of total sheep and lambs</i>
	'000	%	'000	%
1-499	1 067.8	4.9	1 022.9	4.6
500-999	2 241.6	10.2	2 139.2	9.6
1 000-1 499	2 394.1	10.9	2 415.8	10.8
1 500-1 999	2 189.3	10.0	2 169.1	9.7
2 000-2 499	1 964.4	8.9	1 982.9	8.9
2 500-2 999	1 613.2	7.3	1 734.1	7.8
3 000-3 999	2 688.5	12.2	2 707.9	12.1
4 000-4 999	1 809.9	8.2	1 909.0	8.6
5 000-5 999	1 392.2	6.3	1 392.6	6.2
6 000-6 999	949.8	4.3	838.9	3.8
7 000-7 999	555.9	2.5	726.4	3.3
8 000-8 999	660.2	3.0	616.8	2.8
9 000-9 999	357.0	1.6	403.1	1.8
10 000 and over	2 089.9	9.5	2 266.0	10.2
<b>Total</b>	<b>21 973.8</b>	<b>100.0</b>	<b>22 324.7</b>	<b>100.0</b>

# 42

## LAMBING, Year ended 31 March 1997

### EWES TO BE MATED YEAR ENDED 31 MARCH 1998(c)

.....

Statistical division	Ewes mated(a)	Lambs marked	Lamb marking ratio(b)	Joined to merino rams	Joined to short wool rams	Joined to other rams	Total
	'000	'000	%	'000	'000	'000	'000
Melbourne	57.7	52.4	90.8	15.4	23.5	11.0	49.9
Barwon	563.9	454.5	80.6	368.2	130.5	67.1	565.8
Western District	2 641.5	2 173.9	82.3	1 430.2	832.6	498.1	2 760.9
Central Highlands	1 105.4	886.1	80.2	797.0	241.5	125.8	1 164.3
Wimmera	1 388.0	1 133.0	81.6	813.5	443.6	195.9	1 453.0
Mallee	654.2	595.5	91.0	173.1	365.3	151.9	690.3
Loddon	858.9	755.6	88.0	439.0	328.9	129.7	897.6
Goulburn	996.5	889.4	89.3	387.5	435.9	228.3	1 051.7
Ovens-Murray	166.9	145.1	86.9	52.2	82.0	43.0	177.1
East Gippsland	378.8	316.9	83.7	239.1	107.6	41.6	388.3
Gippsland	146.6	166.1	113.3	7.8	91.6	40.4	139.8
<b>Victoria</b>							
1997	<b>8 958.5</b>	<b>7 568.6</b>	<b>84.5</b>	<b>4 722.8</b>	<b>3 083.0</b>	<b>1 532.9</b>	<b>9 338.8</b>
1996	<b>8 491.0</b>	<b>7 027.3</b>	<b>82.8</b>	<b>4 870.5</b>	<b>n.c.</b>	<b>n.c.</b>	<b>9 197.6</b>
1995	<b>9 029.3</b>	<b>7 318.4</b>	<b>81.1</b>	<b>4 832.6</b>	<b>n.c.</b>	<b>n.c.</b>	<b>8 677.0</b>

(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.

# 43

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

Statistical division	Total establishments	Percentage of total establishments with pigs	Total pigs	Percentage of total pigs
	no.	%	'000	%
Melbourne	15	2.7	11.8	2.4
Barwon	18	3.2	20.0	4.1
Western District	47	8.5	15.8	3.3
Central Highlands	18	3.2	26.7	5.5
Wimmera	97	17.4	44.6	9.2
Mallee	135	24.3	99.2	20.5
Loddon	71	12.8	153.9	31.7
Goulburn	95	17.1	86.8	17.9
Ovens-Murray	25	4.5	5.5	1.1
East Gippsland	18	3.2	3.7	0.8
Gippsland	17	3.1	17.2	3.5
<b>Victoria</b>				
1997	<b>556</b>	<b>100.0</b>	<b>485.2</b>	<b>100.0</b>
1996	<b>613</b>	<b>100.0</b>	<b>458.5</b>	<b>100.0</b>
1995	<b>748</b>	<b>100.0</b>	<b>438.6</b>	<b>100.0</b>

(a) Includes suckers, weaners, growers etc.

Herd size	1996.....		1997	
	<i>Establishments</i>	<i>Percentage of pig establishments</i>	<i>Establishments</i>	<i>Percentage of pig establishments</i>
	no.	%	no.	%
1-9	90	14.7	58	10.4
10-19	45	7.3	37	6.7
20-29	32	5.2	43	7.7
30-39	19	3.1	24	4.3
40-49	26	4.2	11	2.0
50-69	34	5.5	36	6.5
70-99	32	5.2	27	4.9
100-149	40	6.5	40	7.2
150-199	27	4.4	30	5.4
200-299	59	9.6	43	7.7
300-499	49	8.0	53	9.5
500-699	39	6.4	27	4.9
700-999	32	5.2	32	5.8
1 000 and over	89	14.5	95	17.1
<b>Total</b>	<b>613</b>	<b>100.0</b>	<b>556</b>	<b>100.0</b>

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	0.3	0.1
10-19	0.6	0.1	0.5	0.1
20-29	0.8	0.2	1.0	0.2
30-39	0.6	0.1	0.8	0.2
40-49	1.1	0.2	0.5	0.1
50-69	1.9	0.4	2.1	0.4
70-99	2.6	0.6	2.2	0.5
100-149	4.9	1.1	4.9	1.0
150-199	4.5	1.0	5.1	1.1
200-299	13.6	3.0	10.0	2.1
300-499	18.7	4.1	21.1	4.3
500-699	22.4	4.9	16.1	3.3
700-999	26.3	5.7	25.5	5.3
1 000 and over	360.1	78.6	394.9	81.4
<b>Total</b>	<b>458.5</b>	<b>100.0</b>	<b>485.2</b>	<b>100.0</b>

(a) Includes suckers, weaners, growers etc.



## 45

## POULTRY, NUMBER ON HOLDING, At 31 March 1997

Statistical division	LAYERS		CHICKENS		MEAT	OTHER POULTRY.....	
	production consumption	Hens for egg for human				Ducks	Turkeys
			'000		'000	'000	'000
Melbourne			1 464.4		10 018.4	0.1	—
Barwon			366.0		1 423.9	—	—
Western District			165.7		—	—	—
Central Highlands			127.9		—	0.4	0.1
Wimmera			18.5		248.5	208.0	60.8
Mallee			93.0		143.1	—	56.0
Loddon			353.3		1 249.9	37.7	—
Goulburn			477.9		124.3	—	5.1
Ovens-Murray			60.6		0.1	1.8	—
East Gippsland			—		0.3	—	—
Gippsland			291.9		165.2	—	—
<b>Victoria</b>							
<b>1997</b>			<b>3 419.1</b>		<b>13 373.7</b>	<b>248.0</b>	<b>122.0</b>
<b>1996</b>			<b>3 009.0</b>		<b>12 804.0</b>	<b>238.0</b>	<b>123.0</b>

## 46

## POULTRY, NUMBER DISPOSED OF, At 31 March 1997

Statistical division	LAYERS		CHICKENS		MEAT	OTHER POULTRY.....	
	production consumption	Hens for egg for human				Ducks	Turkeys
			'000		'000	'000	'000
Melbourne			1 520.5		106 200.9	0.1	—
Barwon			279.5		28 656.7	0.1	—
Western District			76.7		—	—	—
Central Highlands			64.2		—	0.1	—
Wimmera			30.0		1 039.8	1.0	151.0
Mallee			104.1		436.9	—	119.6
Loddon			1 996.7		3 831.4	185.1	—
Goulburn			179.7		305.2	—	10.1
Ovens-Murray			59.3		—	54.0	0.3
East Gippsland			—		—	—	—
Gippsland			134.3		863.1	—	—
<b>Victoria</b>							
<b>1997</b>			<b>4 444.9</b>		<b>141 334.2</b>	<b>240.4</b>	<b>281.0</b>
<b>1996</b>			<b>5 522</b>		<b>138 537.0</b>	<b>1 231.0</b>	<b>261.0</b>

## ESTABLISHMENTS.....

<i>Statistical division</i>	<i>Alpacas</i>	<i>Deer</i>	<i>Emus</i>	<i>Goats</i>	<i>Horses for breeding (a)</i>	<i>Ostriches</i>
	no.	no.	no.	no.	no.	no.
Melbourne	21	23	10	19	178	37
Barwon	8	14	9	11	77	25
Western District	5	25	15	14	99	33
Central Highlands	7	14	9	12	72	10
Wimmera	1	11	43	19	65	32
Mallee	2	7	37	15	53	34
Loddon	5	13	21	13	93	19
Goulburn	9	28	30	28	260	34
Ovens-Murray	4	19	14	16	98	8
East Gippsland	2	12	8	27	76	36
Gippsland	10	33	15	17	80	29
<b>Victoria</b>						
<b>1997</b>	<b>74</b>	<b>199</b>	<b>211</b>	<b>191</b>	<b>1 151</b>	<b>297</b>
<b>1996</b>	<b>n.c.</b>	<b>197</b>	<b>n.c.</b>	<b>n.c.</b>	<b>1 458</b>	<b>n.c.</b>
<b>1995</b>	<b>n.c.</b>	<b>210</b>	<b>n.c.</b>	<b>n.c.</b>	<b>1 339</b>	<b>n.c.</b>

## LIVESTOCK.....

<i>Statistical division</i>	<i>Alpacas</i>	<i>Deer</i>	<i>Emus</i>	<i>Goats</i>	<i>Horses for breeding (a)</i>	<i>Ostriches</i>
	no.	no.	no.	no.	no.	no.
Melbourne	648	5 061	904	871	3 601	1 653
Barwon	612	933	1 233	753	862	2 087
Western District	166	4 542	1 807	590	1 035	1 461
Central Highlands	275	1 736	1 398	1 766	942	369
Wimmera	4	1 627	9 572	4 742	433	887
Mallee	25	1 265	10 615	2 053	486	1 168
Loddon	309	2 244	13 118	1 692	1 619	2 359
Goulburn	237	8 093	4 230	1 521	4 945	1 857
Ovens-Murray	92	4 301	5 194	1 218	987	240
East Gippsland	16	556	676	4 664	560	2 929
Gippsland	108	9 189	2 357	1 074	812	1 931
<b>Victoria</b>						
<b>1997</b>	<b>2 492</b>	<b>39 547</b>	<b>51 104</b>	<b>20 944</b>	<b>16 282</b>	<b>16 941</b>
<b>1996</b>	<b>n.c.</b>	<b>34 791</b>	<b>n.c.</b>	<b>n.c.</b>	<b>15 726</b>	<b>n.c.</b>
<b>1995</b>	<b>n.c.</b>	<b>36 305</b>	<b>n.c.</b>	<b>n.c.</b>	<b>14 121</b>	<b>n.c.</b>

(a) Comprises horses on establishments with agricultural activity.

Statistical division	Dairy bulls	Beef bulls	Other cattle	Lambs and hoggets
	'000	'000	'000	'000
Melbourne	0.2	1.2	83.7	45.4
Barwon	0.2	0.6	83.8	157.3
Western District	1.0	2.9	332.2	919.9
Central Highlands	0.1	0.5	44.0	358.5
Wimmera	—	0.2	26.2	619.1
Mallee	0.2	0.3	60.6	502.4
Loddon	0.3	0.7	46.4	402.4
Goulburn	1.2	2.2	332.3	545.4
Ovens-Murray	0.2	1.0	150.1	99.7
East Gippsland	0.4	1.2	164.8	112.3
Gippsland	1.1	1.4	276.5	163.3
<b>Victoria</b>				
<b>1997</b>	<b>4.9</b>	<b>12.2</b>	<b>1 600.5</b>	<b>3 925.8</b>
<b>1996</b>	<b>4.3</b>	<b>13.7</b>	<b>1 703.6</b>	<b>3 711.0</b>

Statistical division	All other sheep	Pigs	Deer	Alpacas
	'000	'000	'000	'000
Melbourne	19.6	43.1	1.2	—
Barwon	289.1	21.8	0.2	—
Western District	1 201.8	27.4	0.7	0.1
Central Highlands	568.9	49.9	0.2	—
Wimmera	793.4	74.2	0.5	—
Mallee	239.2	144.6	0.3	—
Loddon	355.7	238.0	0.4	0.1
Goulburn	375.1	158.8	1.7	0.1
Ovens-Murray	50.5	16.7	0.8	—
East Gippsland	176.1	6.4	0.3	—
Gippsland	30.9	28.7	2.1	—
<b>Victoria</b>				
<b>1997</b>	<b>4 100.4</b>	<b>809.5</b>	<b>8.4</b>	<b>0.4</b>
<b>1996</b>	<b>4 190.2</b>	<b>822.8</b>	<b>10.6</b>	<b>n.c.</b>

Statistical division	Goats	Emus	Horses	Ostriches
	'000	'000	'000	'000
Melbourne	0.1	0.5	1.0	0.3
Barwon	0.2	0.2	0.2	0.1
Western District	0.1	0.4	0.4	1.3
Central Highlands	0.3	—	0.2	0.4
Wimmera	0.9	1.4	0.1	0.2
Mallee	0.4	1.7	0.4	0.2
Loddon	0.3	1.5	0.3	0.2
Goulburn	0.3	1.6	1.2	0.3
Ovens-Murray	0.4	0.9	2.3	0.1
East Gippsland	0.6	0.4	0.3	0.7
Gippsland	0.1	0.8	0.2	0.5
			0.0	
<b>Victoria</b>				
<b>1997</b>	<b>3.6</b>	<b>9.3</b>	<b>6.5</b>	<b>4.3</b>
<b>1996</b>	<b>n.c.</b>	<b>n.c.</b>	<b>3.0</b>	<b>n.c.</b>

	Units	1995	1996	1997
Number of livestock slaughtered(a)(b)				
Cattle	'000	1 446.0	1 542.7	1 675.9
Calves	'000	651.9	590.2	697.3
Chickens	'000	80 374.8	77 942.0	86 732.6
Sheep	'000	3 513.8	2 519.3	2 806.6
Lambs	'000	6 358.7	5 991.8	5 978.9
Pigs	'000	1 191.3	1 160.2	1 197.3
Meat produced(a)(c)				
Beef	tonnes	329 399	352 755	373 818
Veal	tonnes	14 999	12 770	14 293
Chicken	tonnes	114 006	113 504	129 930
Mutton	tonnes	71 248	51 317	55 545
Lamb	tonnes	113 373	110 043	111 403
Pig	tonnes	81 878	84 768	85 872
Whole milk intake				
by factories(d)	million litres	5 156	5 348	5 622
Wool(e)				
Brokers and dealers receivals of taxable wool	tonnes	177 793	157 047	174 954
Eggs produced	'000 dozen	40 120.6	40 131.4	44 670.3

(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. Data is for the year ended 30 June

(e) Sources: National Council of Wool Selling Brokers of Australia and ABS Wool Brokers and Dealers Collection. Data is for the year ended 30 June

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## GROSS VALUE OF LIVESTOCK PRODUCTS & OTHER DISPOSALS, Years ended 31 March

	1995	1996 <sup>r</sup>	1997 <sup>p</sup>
	\$m	\$m	\$m
Livestock slaughtering(a)			
Cattle and calves	775.8	694.0	662.5
Pigs	146.4	141.6	163.3
Poultry	189.8	209.7	240.7
Sheep and lambs(b)	263.4	324.5	347.3
Other	0.1	0.8	0.4
<b>Total</b>	<b>1 375.4</b>	<b>1 370.6</b>	<b>1 414.2</b>
Wool			
Shorn and crutched	597.8	457.3	487.8
Other(c)	36.0	25.4	25.1
<b>Total</b>	<b>633.7</b>	<b>482.7</b>	<b>512.9</b>
Production of milk			
Human consumption	192.9	202.9	206.1
Manufacturing	1 120.3	1 452.1	1 330.8
<b>Total</b>	<b>1 313.3</b>	<b>1 655.0</b>	<b>1 536.9</b>
Eggs	42.3	51.3	57.8
Honey and beeswax	4.7	7.1	7.9

(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
Number of apiarists	no.	294	254	212
Number of beehives				
Productive(a)	no.	64 753	77 461	73 100
Unproductive	no.	17 951	4 045	4 334
<b>Total</b>	<b>no.</b>	<b>82 704</b>	<b>81 506</b>	<b>77 434</b>
Honey produced				
Quantity	kg	3 301 577	4 415 045	4 403 422
Average production(b)	kg/hive	51	57	60
Beeswax produced	kg	58 413	79 609	75 944

(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	424.1	8	423.0	9	236.8	20	290.7	16
Sales from livestock	1.2	59	1.4	80	18.8	38	25.4	34
Sales from livestock products	—	—	—	—	44.6	82	44.2	88
Turnover	482.1	8	465.4	8	324.6	17	385.4	16
Purchases and selected expenses	179.2	9	215.2	11	179.9	21	232.1	21
Value added(a)	303.7	9	250.5	9	135.6	17	149.6	12
Adjusted value added(a)	272.5	9	228.9	9	122.6	18	129.0	12
Gross operating surplus(a)	165.6	12	126.3	13	68.7	19	66.6	20
Interest paid	23.8	31	25.0	23	15.7	21	17.0	16
Cash operating surplus(b)	154.1	14	105.0	14	63.0	19	55.7	23
Gross indebtedness	367.3	39	201.3	24	177.6	20	247.8	23
Total net capital expenditure	15.5	36	10.7	30	26.5	37	20.7	37

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	238.5	13	599.8	9	149.3	18	217.5	23
Sales from livestock	38.3	24	71.2	17	64.0	15	67.9	21
Sales from livestock products	25.9	19	20.3	17	87.7	19	62.8	23
Turnover	333.8	13	732.0	9	318.5	14	363.1	19
Purchases and selected expenses	206.8	14	386.2	9	175.7	15	186.6	17
Value added(a)	118.7	15	370.9	9	116.4	18	216.0	20
Adjusted value added(a)	92.0	18	337.1	9	91.8	21	196.6	20
Gross operating surplus(a)	69.8	24	325.8	9	68.0	27	184.6	20
Interest paid	16.1	23	27.7	15	17.5	23	15.4	27
Cash operating surplus(b)	62.4	27	279.8	10	70.3	25	136.6	25
Gross indebtedness	151.5	22	274.3	15	209.1	34	147.6	28
Total net capital expenditure	34.5	23	73.4	19	23.2	24	22.0	48

(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	SE %	\$m	SE %	\$m	SE %	\$m	SE %
Sales from crops	16.3	56	31.0	53	32.6	30	38.1	36
Sales from livestock	194.0	13	210.4	20	78.0	22	98.3	37
Sales from livestock products	115.1	14	73.2	19	243.4	17	163.8	15
Turnover	335.3	9	331.2	17	372.9	11	314.8	13
Purchases and selected expenses	189.9	9	196.6	18	179.9	14	191.5	16
Value added(a)	105.0	17	137.4	19	169.8	15	220.7	12
Adjusted value added(a)	75.1	23	110.1	21	143.4	16	195.9	13
Gross operating surplus(a)	55.6	30	81.9	24	118.5	18	172.8	14
Interest paid	25.8	22	19.9	20	36.1	28	20.1	23
Cash operating surplus(b)	70.6	23	66.9	25	101.9	26	57.0	37
Gross indebtedness	239.0	22	187.8	20	289.2	25	179.1	23
Total net capital expenditure	20.8	27	14.9	43	28.8	39	20.6	36

Items	BEEF CATTLE 0125				DAIRY CATTLE 0130			
	1994-95		1995-96		1994-95		1995-96	
	\$m	SE %	\$m	SE %	\$m	SE %	\$m	SE %
Sales from crops	11.2	62	12.1	50	2.3	63	15.0	58
Sales from livestock	307.6	13	307.4	10	189.1	14	173.0	14
Sales from livestock products	26.6	73	3.7	27	1 298.9	7	1 466.5	5
Turnover	419.0	14	419.7	11	1 524.7	6	1 689.8	4
Purchases and selected expenses	275.8	13	307.1	11	919.1	7	1 013.0	5
Value added(a)	77.3	36	71.2	37	744.9	8	739.8	7
Adjusted value added(a)	45.1	56	20.5	*	660.6	8	673.7	7
Gross operating surplus(a)	19.4	123	-9.5	**	582.7	10	600.7	7
Interest paid	22.7	40	23.0	23	104.1	15	111.5	12
Cash operating surplus(b)	67.9	25	20.7	*	334.1	15	435.9	9
Gross indebtedness	258.6	32	276.3	28	1 071.5	15	1 169.9	11
Total net capital expenditure	23.9	56	16.8	33	108.8	16	111.6	16

(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		1995-96		1994-95		1995-96	
	\$m	SE %	\$m	SE %	\$m	SE %	\$m	SE %
Sales from crops	0.4	33	3.5	*	195.6	17	209.3	15
Sales from livestock	104.8	10	103.4	24	76.6	32	39.9	37
Sales from livestock products	4.9	44	1.4	79	38.5	45	14.0	41
Turnover	113.6	11	110.9	22	360.4	13	374.8	12
Purchases and selected expenses	86.7	10	83.4	22	181.3	15	200.9	14
Value added(a)	18.4	27	36.0	19	169.3	17	174.5	15
Adjusted value added(a)	13.4	37	31.6	20	141.3	20	140.1	18
Gross operating surplus(a)	4.4	105	23.0	19	67.1	34	58.9	42
Interest paid	2.0	38	2.8	71	23.2	21	22.7	21
Cash operating surplus(b)	9.9	22	12.0	38	54.0	38	38.6	61
Gross indebtedness	19.7	33	24.6	80	242.3	18	261.2	20
Total net capital expenditure	6.9	23	6.3	45	32.2	30	25.4	31

#### AGRICULTURE ALL INDUSTRIES

Items	1994-95		1995-96	
	\$m	SE %	\$m	SE %
Sales from crops	1 307.1	6	1 840.1	5
Sales from livestock	1 072.5	6	1 098.4	6
Sales from livestock products	1 885.5	6	1 849.8	5
Turnover	4 584.8	3	5 187.0	3
Purchases and selected expenses	2 574.2	4	3 012.5	3
Value added(a)	1 959.2	4	2 366.6	3
Adjusted value added(a)	1 657.8	5	2 063.4	4
Gross operating surplus(a)	1 219.6	6	1 631.2	5
Interest paid	287.1	8	285.2	6
Cash operating surplus(b)	988.1	7	1 208.2	6
Gross indebtedness	3 025.8	9	2 969.8	6
Total net capital expenditure	321.0	10	322.3	9

(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	1991-92	SE	1992-93	SE	1993-94	SE
	\$m	%	\$m	%	\$m	%
Sales from crops	1 118.8	4	1 412.8	4	1 510.0	6
Sales from livestock	791.4	5	918.5	5	1 123.6	7
Sales from livestock products	1 426.7	4	1 721.9	4	1 549.7	10
Turnover	3 576.7	2	4 296.7	3	4 449.8	5
Purchases and selected expenses	1 973.6	3	2 294.3	3	2 505.6	5
Value added(a)	1 658.4	4	2 247.9	3	2 234.1	6
Adjusted value added(a)	1 406.7	4	1 966.8	3	1 948.0	6
Gross operating surplus(a)	1 048.4	5	1 593.1	3	1 502.3	7
Interest paid	310.3	6	316.1	10	247.6	9
Cash operating surplus(b)	701.4	6	1 045.4	6	970.9	8
Gross indebtedness	2 451.7	6	2 769.5	7	2 659.7	9
Total net capital expenditure	230.5	12	364.3	8	401.1	10

Items	1994-95	SE	1995-96	SE	1996-97p	SE
	\$m	%	\$m	%	\$m	%
Sales from crops	1 307.1	6	1 840.1	5	1 948.8	7
Sales from livestock	1 072.5	6	1 098.4	6	1 000.9	5
Sales from livestock products	1 885.5	6	1 849.8	5	2 028.4	5
Turnover	4 584.8	3	5 187.0	3	5 299.3	3
Purchases and selected expenses	2 574.2	4	3 012.5	3	3 090.0	4
Value added(a)	1 959.2	4	2 366.6	3	2 308.4	4
Adjusted value added(a)	1 657.8	5	2 063.4	4	2 009.5	5
Gross operating surplus(a)	1 219.6	6	1 631.2	5	1 488.3	6
Interest paid	287.1	8	285.2	6	309.8	7
Cash operating surplus(b)	988.1	7	1 208.2	6	1 138.2	8
Gross indebtedness	3 025.8	9	2 969.8	6	3 421.6	7
Total net capital expenditure	321.0	10	322.3	9	576.5	10

(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).

	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97 <sup>p</sup>
Items	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Sales from crops	39.1	49.2	53.0	47.4	66.4	72.0
Sales from livestock	27.7	32.0	39.4	38.9	39.7	37.0
Sales from livestock products	49.9	60.0	54.4	68.4	66.8	75.0
Turnover	125.0	149.7	156.1	166.4	187.3	195.0
Purchases and selected expenses	69.0	79.9	87.9	93.4	108.8	114.0
Value added(a)	58.0	78.3	78.4	71.1	85.5	85.0
Adjusted value added(a)	49.2	68.5	68.3	60.2	74.5	74.0
Gross operating surplus(a)	36.6	55.5	52.7	44.3	58.9	55.0
Interest paid	10.8	11.0	8.7	10.4	10.3	11.0
Cash operating surplus(b)	24.5	36.4	34.1	35.9	43.6	42.0
Gross indebtedness	85.7	96.5	93.3	109.8	107.2	126.0
Total net capital expenditure	8.1	12.7	14.1	11.7	11.6	21.0

(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 (see note 23 for AFS scope):

- |                      |                             |
|----------------------|-----------------------------|
| ■ 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 |
| ■ 1982–83 to 1985–86 | EVAO \$2,500 and over.      |

**4** Table 1 shows 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, 2, 5 and 6.

**5** The effect of the lower EVAO cut-off of \$5,000 and over, from 1993–94 onwards, is to include some smaller agricultural establishments that were 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 slaughtering, 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 in the reference year (for example, maize, rice, apples, grapes and late planted potatoes), the production statistics relate to the completed harvest.

## EXPLANATORY NOTES *continued*

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### 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 valuation 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 turn-off 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.

## EXPLANATORY NOTES *continued*

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Statistics of other crops which in some States are harvested after 31 March 1997 (e.g. maize, potatoes, apples and pears) are collected by supplementary census returns and are included in this publication.

### LIVESTOCK SLAUGHTERING AND LIVESTOCK PRODUCTS

**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 49 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.

## EXPLANATORY NOTES *continued*

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**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).

### 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 Sub-division 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, 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.

## EXPLANATORY NOTES *continued*

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### 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 Moira Darling on (03) 9615 7062.

**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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