



## 6 Agriculture

### INTRODUCTION

*This chapter presents an overview of Victoria's agricultural performance as compared with Australia. Data are provided on the gross value of commodities produced, the major agricultural activities within statistical divisions, the area and production of agricultural commodities, and information concerning livestock and livestock products.*

#### The 1991 Season

The 1990-91 Agricultural Census covered 32,620 establishments with agricultural activity, which was 2 per cent less than the previous season. Census results showed a general increase in livestock numbers, as well as increased output of livestock products compared with the previous year.

Wool production fell by 7 per cent to 133,000 tonnes, while the gross value was \$708 million, continuing a downward trend due to a marginally lower average unit value. The number of sheep shorn decreased by nearly 10 per cent, while the average yield for sheep and lambs decreased to 4.2 kg per head.

In contrast to the previous season, the 1991 season saw a general decrease in the production of fruit and fodder crops. However, vegetable production increased. The gross value of crops, including fruit and vegetables, decreased by 8.6 per cent to \$1.57 billion.

Although the area sown for cereal grains increased marginally, production decreased by 18 per cent. Gross value of cereals for grain decreased to \$307 million, a fall of 47 per cent.

The total gross value of agricultural commodities produced decreased to \$4.6 billion, a 10 per cent decrease compared with the previous season.

#### Victoria compared with Australia

In terms of farm income, Victoria's share for the latest 6 year period (1985-86 to 1990-91) fluctuated markedly. Farm income decreased

from \$1,182m in 1989-90 to \$551m in 1990-91. The 1990-91 Victorian figure represented 46.2 per cent of the total Australian farm income of \$1,192m.

The Gross Value of Agricultural Commodities Produced (GVACP) provides a measure of the output from farming. In 1990-91, the GVACP for Victoria was \$4,683m, or 22 per cent of the Australian total of \$21,168m. In terms of value, Victoria produced 17 per cent of Australia's crops, 22 per cent of livestock slaughtered, and 28 per cent of livestock products (wool, milk, eggs, and honey).

### Scope of the Agricultural Census

Statistics in this publication are, in general, derived from the Agricultural Census conducted throughout Australia at 31 March each year. The Census collects data from establishments with agricultural activity.

The ABS excludes from the Census establishments with an Estimated Value of Agricultural Operations (EVAO) below a cut-off level. This cut-off level is reviewed from time to time. From 1981-82 to 1985-86 establishments were excluded from the Census if they had, or were expected to have, an EVAO of less than \$2,500. From the 1986-87 Census, the cut-off value was raised to \$20,000.

EVAO is an aggregation of derived values for all crop and livestock activity for each unit. 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 the actual value of agricultural commodities produced by these units.

**TABLE 6.1 AUSTRALIAN NATIONAL ACCOUNTS: GROSS DOMESTIC PRODUCT AT FACTOR COST, AGRICULTURE, FORESTRY, FISHING, AND HUNTING INDUSTRY**

Year	Gross Domestic Product at factor cost		
	Victoria	Australia	Victoria as a percentage of Australia
	\$m	\$m	per cent
1985-86r	1,895	8,890	21.3
1986-87r	2,275	9,866	23.0
1987-88r	2,652	11,431	23.2
1988-89r	3,053	13,872	22.0
1989-90r	3,057	14,002	21.8
1990-91	2,361	10,874	21.7

Source: ABS, Cat. No. 5220.0 and Cat. No. 5204.0.

**TABLE 6.2 AUSTRALIAN NATIONAL ACCOUNTS : FARM INCOME**

Year	Gross Farm Product at factor cost		
	Victoria	Australia	Victoria as a percentage of Australia
	\$m	\$m	per cent
1985-86r	452	1,424	31.7
1986-87r	743	1,831	40.5
1987-88r	1,073	3,525	30.4
1988-89r	1,362	4,847	28.0
1989-90r	1,182	4,062	29.0
1990-91	551	1,192	46.2

Source: ABS, Cat. No. 5204.0 and Cat. No. 5220.0.

**TABLE 6.3 VALUE OF AGRICULTURAL COMMODITIES PRODUCED, VICTORIA**  
(\$'000)

Particulars	Year ended 30 June					
	1986	1987	1988	1989	1990	1991
<b>Crops -</b>						
Cereals for grain	480,321	525,136	421,509	502,434	578,167	343,967
Hay	143,698	181,003	148,406	211,254	234,627	287,937
Industrial crops	33,091	34,329	48,562	44,675	44,228	42,031
Vegetables	185,605	227,351	255,994	291,792	345,303	320,528
Grapes	123,000	117,776	149,323	156,215	141,160	158,598
Fruit	154,030	203,604	202,101	220,127	233,050	244,160
Other	158,528	186,862	269,598	232,317	234,334	211,270
<b>Total</b>	<b>1,278,273</b>	<b>1,476,061</b>	<b>1,495,493</b>	<b>1,658,814</b>	<b>1,810,869</b>	<b>1,608,591</b>
<b>Livestock slaughtering and other disposals -</b>						
Cattle and calves	520,269	561,154	570,499	625,307	706,928	794,469
Sheep and lambs	178,677	259,275	270,033	233,308	180,182	112,914
Other	251,327	249,424	294,405	318,831	332,799	363,327
<b>Total</b>	<b>950,273</b>	<b>1,069,853</b>	<b>1,134,937</b>	<b>1,177,446</b>	<b>1,219,909</b>	<b>1,270,711</b>
<b>Livestock products -</b>						
Wool	542,076	726,259	1,144,831	1,159,326	1,099,775	707,796
Dairy products	557,935	643,778	747,811	904,065	956,927	1,000,565
Other	84,322	86,327	84,633	91,815	92,649	95,507
<b>Total</b>	<b>1,184,647</b>	<b>1,456,364</b>	<b>1,977,275</b>	<b>2,155,206</b>	<b>2,149,351</b>	<b>1,803,870</b>
<b>Grand total</b>	<b>3,413,193</b>	<b>4,002,278</b>	<b>4,607,705</b>	<b>4,991,466</b>	<b>5,178,442</b>	<b>4,683,172</b>

**TABLE 6.4 GROSS VALUE OF AGRICULTURAL COMMODITIES PRODUCED 1990-91**  
(\$'000)

	Victoria	Australia	Victoria as a percentage of Australia
<b>Crops -</b>			
Cereals for Grain	344,000	3,008,600	11.4
Hay	288,000	638,800	45.0
Industrial Crops	42,000	1,560,700	2.6
Vegetables	320,500	1,284,200	24.9
Grapes	158,600	362,000	43.8
Fruit	244,200	1,059,600	23.0
Other	211,300	1,160,000	18.2
<b>Total</b>	<b>1,608,600</b>	<b>9,073,900</b>	<b>17.7</b>
<b>Livestock Slaughtering and other disposals -</b>			
Cattle and Calves	794,500	3,869,400	20.5
Sheep and Lambs	112,900	373,300	30.2
Other	363,300	1,487,300	24.4
<b>Total</b>	<b>1,270,700</b>	<b>5,730,000</b>	<b>22.1</b>
<b>Livestock Products -</b>			
Wool	707,800	4,180,900	16.9
Dairy Products	1,000,600	1,824,800	54.8
Other	95,500	350,000	27.2
<b>Total</b>	<b>1,803,900</b>	<b>6,355,700</b>	<b>28.3</b>
<b>Grand total</b>	<b>4,683,200</b>	<b>21,168,200</b>	<b>22.1</b>

**TABLE 6.5 NUMBER OF ESTABLISHMENTS, WITH AGRICULTURAL ACTIVITY, AREA, AND LAND UTILISATION, BY STATISTICAL DIVISION 1990-91**

Statistical division	Number of establishments (a)	Area used for crops(b)(c)	Sown pasture and lucerne	Native pasture	Balance of establishments	Total area of establishments
		'000 ha	'000 ha	'000 ha	'000 ha	'000 ha
Melbourne	2,062	21	109	47	37	215
Barwon	1,639	33	262	86	65	445
Western District	4,911	47	1,235	286	186	1,754
Central Highlands	1,842	58	475	149	92	774
Wimmera	2,998	647	766	234	476	2,124
Mallee	3,966	890	547	481	755	2,672
Loddon-Campaspe	3,107	197	582	287	253	1,319
Goulburn	4,994	119	660	276	196	1,251
Ovens-Murray	1,967	33	270	135	201	638
East Gippsland	1,286	7	211	273	432	923
Gippsland	3,848	10	429	85	64	588
<b>Total Victoria</b>	<b>32,620</b>	<b>2,063</b>	<b>5,546</b>	<b>2,340</b>	<b>2,756</b>	<b>12,705</b>

(a) Includes non land-based beekeeping establishments (i.e. beekeeping activity not permanently located at one site).

(b) Excludes area of pasture cut for hay or seed.

(c) Duplicated area included if double-cropping occurred.

**TABLE 6.6 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, CLASSIFIED BY EVAO AND MAIN ACTIVITY OF ESTABLISHMENT, BY STATISTICAL DIVISION, VICTORIA, 1990-91 (a)**

Main activity of establishment	Estimated value of agricultural operations (EVAO) (\$'000)						Total establish- ments
	<20	20-39	40-59	60-99	100-199	200+	
MELBOURNE STATISTICAL DIVISION							
Meat cattle	79	161	83	68	33	10	434
Vegetables	4	16	25	64	84	151	344
Orchard and other fruit	15	30	35	40	60	56	236
Nurseries	37	52	21	35	32	33	210
Poultry	5	6	3	23	33	69	139
Potatoes	2	2	1	9	20	48	82
Other	53	97	97	139	162	69	617
Total	195	364	265	378	424	436	2,062
BARWON STATISTICAL DIVISION							
Sheep	9	43	73	113	165	154	544
Milk cattle	1	12	39	141	255	96	544
Meat cattle	36	68	41	31	14	6	196
Other	29	42	43	63	70	95	342
Total	75	165	196	348	504	351	1,639
WESTERN DISTRICT STATISTICAL DIVISION							
Sheep	20	71	130	321	730	923	2,195
Milk cattle	3	33	83	344	824	280	1,567
Meat cattle	65	183	115	76	62	20	521
Sheep and meat cattle	8	29	58	78	129	154	456
Other	29	14	17	25	24	63	172
Total	125	330	403	844	1,769	1,440	4,911



**TABLE 6.6 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY,  
CLASSIFIED BY EVAO AND MAIN ACTIVITY OF ESTABLISHMENT, BY STATISTICAL  
DIVISION, VICTORIA, 1990-91 (a) - continued**

Main activity of establishment	Estimated value of agricultural operations EVAO (\$'000)						Total establish- ments
	<20	20-39	40-59	60-99	100-199	200+	
CENTRAL HIGHLANDS STATISTICAL DIVISION							
Sheep	12	62	107	2278	379	487	1,274
Potatoes	-	7	5	19	42	64	137
Sheep and meat cattle	1	20	28	28	23	10	110
Meat cattle	19	37	11	18	7	-	92
Sheep and cereals	1	2	3	14	16	20	56
Other	16	26	16	43	38	34	173
Total	49	154	170	349	505	615	1,842
WIMMERA STATISTICAL DIVISION							
Sheep and cereals	5	58	105	256	533	438	1,395
Sheep	19	73	98	153	328	256	927
Cereal grains	17	60	71	93	165	84	490
Other	27	24	23	31	41	40	186
Total	68	215	297	533	1,067	818	2,998
MALLEE STATISTICAL DIVISION							
Grapes	3	132	214	500	459	106	1,414
Sheep and cereals	-	24	44	144	389	573	1,174
Cereal grains	10	44	53	79	114	153	453
Orchard and other fruit	18	13	30	40	49	61	211
Other	88	82	74	152	191	127	714
Total	119	295	415	915	1,202	1,020	3,966
LODDON-CAMPASPE STATISTICAL DIVISION							
Sheep	20	89	162	268	308	223	1,070
Milk cattle	3	12	32	177	398	108	730
Sheep and cereals	2	17	38	90	206	157	510
Meat cattle	47	78	51	27	20	3	226
Sheep and meat cattle	5	38	25	39	50	25	182
Pigs	2	8	3	3	18	36	70
Other	36	46	48	64	58	67	319
Total	115	288	359	668	1,058	619	3,107
GOULBURN STATISTICAL DIVISION							
Milk cattle	6	48	96	495	886	214	1,745
Meat cattle	105	222	134	94	62	9	626
Sheep and meat cattle	13	62	69	116	129	62	451
Orchard and other fruit	3	18	28	61	93	156	359
Sheep and cereals	-	9	35	85	137	61	327
Sheep	22	94	166	277	352	175	1,086
Vegetables	-	2	4	8	11	31	56
Other	50	51	41	59	51	92	344
Total	199	506	573	1,195	1,721	800	4,994

**TABLE 6.6 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, CLASSIFIED BY EVAO AND MAIN ACTIVITY OF ESTABLISHMENT, BY STATISTICAL DIVISION, VICTORIA, 1990-91 (a) - continued**

Main activity of establishment	Estimated value of agricultural operations EVAO (\$'000)						Total establi- shments
	<20	20-39	40-59	60-99	100-199	200+	
OVENS-MURRAY STATISTICAL DIVISION							
Meat cattle	70	227	177	146	86	16	722
Milk cattle	-	11	22	96	162	48	339
Sheep and meat cattle	5	27	43	65	78	35	253
Tobacco	-	2	14	312	79	46	173
Sheep	8	18	19	61	73	29	208
Other	17	35	29	51	70	57	272
Total	113	320	304	451	548	231	1,967
EAST GIPPSLAND STATISTICAL DIVISION							
Meat cattle	31	128	69	78	52	8	366
Milk cattle	-	7	20	52	168	77	324
Sheep and meat cattle	2	19	28	36	69	41	195
Sheep	2	14	29	62	97	83	287
Other	17	8	10	15	18	46	114
Total	52	176	156	243	404	255	1,286
GIPPSLAND STATISTICAL DIVISION							
Milk cattle	7	60	129	528	994	315	2,033
Meat cattle	127	379	219	182	109	35	1,051
Potatoes	-	5	3	14	34	70	126
Sheep and meat cattle	4	42	58	53	69	52	278
Sheep	6	17	31	39	51	69	213
Other	27	30	14	11	20	45	147
Total	171	533	454	827	1,277	586	3,848

(a) The period covered in this and most subsequent tables in this Chapter is the 1990-91 season, which in general refers to the year ended 31 March 1991 but also includes activities which may have been finalised after 31 March (e.g. grape picking). In most of these activities the growing period occurred before 31 March.

## AGRICULTURAL COMMODITIES

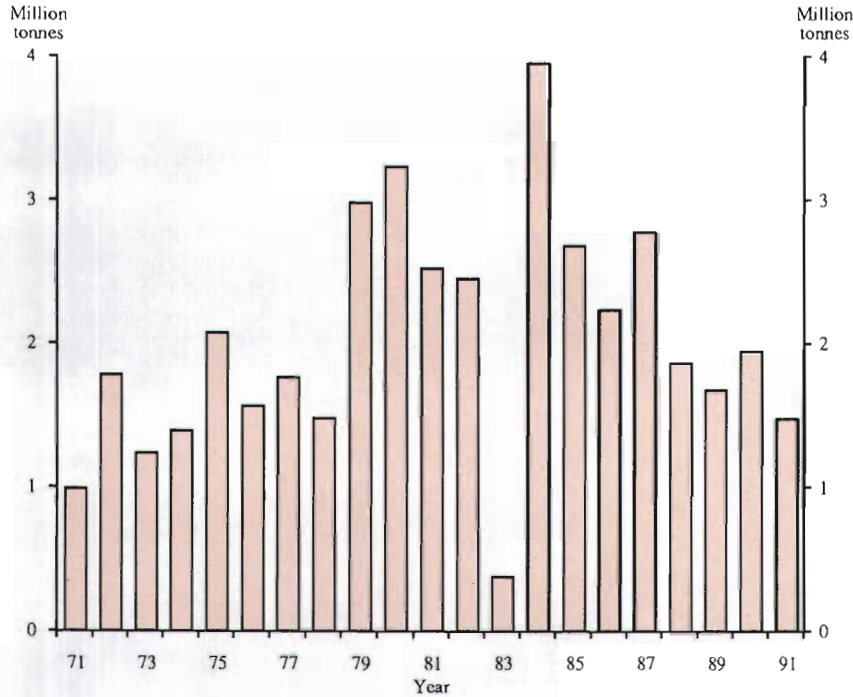
### Field crops

The cereals wheat, oats, and barley are the principal field crops in Victoria. These, together with hay production, green feed, and silage, represent about 80 per cent of the total area sown, although there is some variation from year to year.

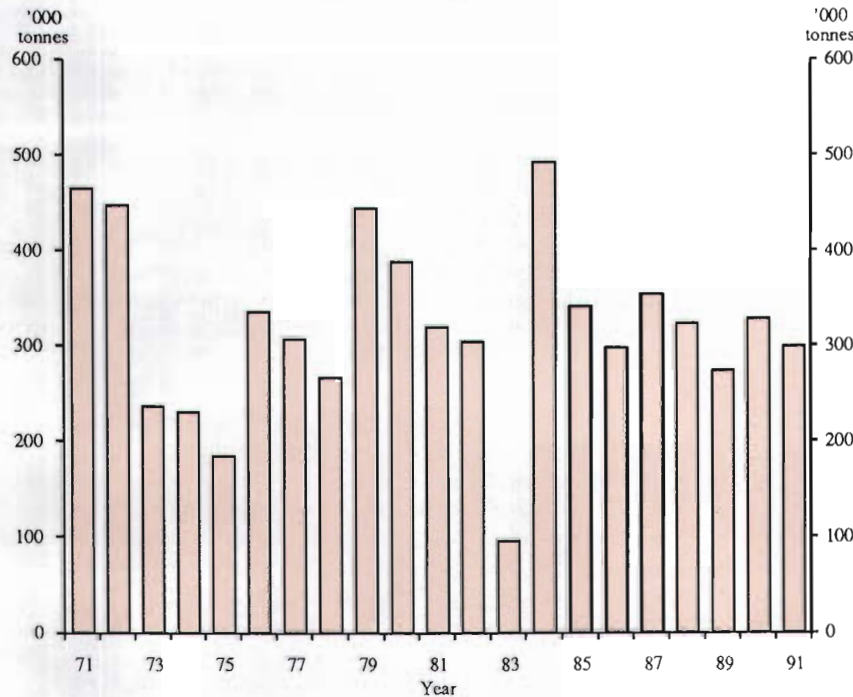
### Wheat

Wheat is Victoria's largest crop in terms of area and production. The average area sown in the six-year period 1985-86 to 1990-91 was 1.15 million hectares, about 46 per cent of the State's total area under crops. Over the same period production averaged 2.08 million tonnes. In Victoria, wheat remained a significant crop in 1990-91, representing 58 per cent of total production of cereals for grain. The value of wheat produced in Victoria amounted to \$169m in 1990-91.

WHEAT PRODUCTION, VICTORIA, YEAR ENDED 31 MARCH



OAT PRODUCTION, VICTORIA, YEAR ENDED 31 MARCH



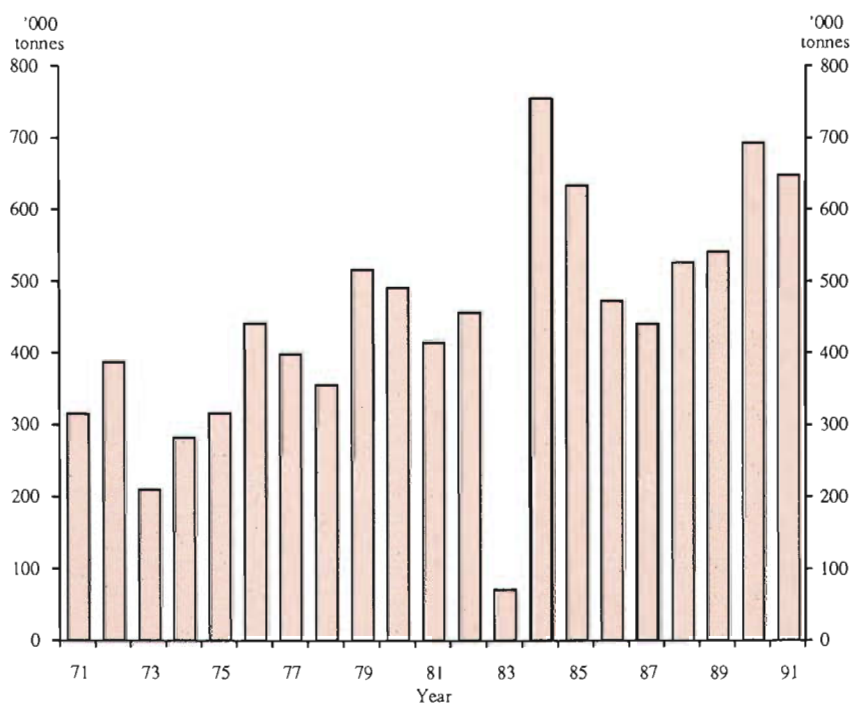
## Oats

Oats are sown for grain production, winter grazing, and hay production. The average annual area sown for these purposes between 1985-86 and 1990-91 was 210,059 hectares. Of this area about 78 per cent was harvested for grain, some of it after being grazed during the winter. Generally, 60 per cent of oats produced is held on farms, 25 per cent is used for compound/urban feed markets, 5 per cent is milled and 10 per cent is exported. Within the feed market, the horse racing industry takes around 25,000 tonnes each year of the higher quality oats available for feed.

## Barley

The area sown to barley for all purposes in 1990-91 was 463,000 hectares, higher than the six-year average of 387,444 hectares. While barley is grown in all statistical divisions, production has been traditionally centred in two distinct areas where high quality grain is produced. The highest production is in the south-west of the Northern Mallee and the adjacent north-western Wimmera. The second source of high quality barley grain is in an area between Melbourne, Geelong, and Bacchus Marsh in southern Victoria.

**BARLEY PRODUCTION, VICTORIA, YEAR ENDED 31 MARCH**



## Maize

The total area of maize for grain fell from 1200 hectares in 1984-85 to 347 hectares in 1990-91. Production fell from 6,300 tonnes in 1984-85 to 2,023 tonnes in 1990-91.



**Oil seeds**

The production of rapeseed, of which 'canola' is a cultivar, increased from 8,711 tonnes in 1984-85 to a high of 24,000 tonnes in 1985-86, falling back to 9,544 tonnes in 1990-91. However during the six year period, yields were the highest in 1988-89 and 1989-90. Safflower production fell in 1990-91 to 4,398 tonnes, while the area sown decreased to 7,891 hectares.

**Grain legumes**

The legumes, predominantly field peas and lupins for grain, have generally shown strong growth in recent years. The area of lupins sown has risen from about 100 hectares in 1973 to just under 36,000 hectares in 1989-91. The 1990-91 production of lupins was 29,644 tonnes, a decrease of 28 per cent over the previous year, while the area sown was 2,619 hectares less than in 1990-91.

The production of field peas fell to 131,744 tonnes in 1990-91. This was 33.5 per cent less than the previous harvest of 198,158 tonnes in 1990-91. The area sown to field peas increased to 165,200 ha this year, compared to 154,366 ha in 1990-91.

**TABLE 6.7 WHEAT FOR GRAIN, VICTORIA**

<i>Season</i>	<i>Area</i>	<i>Production</i>	<i>Average yield per hectare</i>	<i>A.S.W.(a) wheat standard</i>
	'000 ha	'000 tonnes	tonnes	kg/hl
1984-85	1,523	2,666	1.75	84.1
1985-86	1,508	2,250	1.49	80.9
1985-86 (b)	1,488	2,225	1.56	80.9
1986-87	1,364	2,795	2.05	80.2
1987-88	1,026	1,882	1.84	82.7
1988-89	931	1,691	1.82	82.5
1989-90	952	1,961	2.06	83.5
1990-91	911	1,493	1.64	

(a) Australian Standard White, quoted in kilograms per hectolitre.

(b) To assist in gauging the degree of change of the effect of raising the EVAO cut-off from \$2,500 or more to \$20,000 or more, data for 1985-86 have been tabulated on both bases.

**TABLE 6.8 OATS FOR GRAIN, VICTORIA**

<i>Season</i>	<i>Area</i>	<i>Production</i>	<i>Average yield per hectare</i>
	'000 ha	'000 tonnes	tonnes
1985-86	212	300	1.42
1985-86 (a)	204	290	1.43
1986-87	215	356	1.66
1987-88	216	325	1.51
1988-89	189	276	1.46
1989-90	189	330	1.75
1990-91	177	301	1.70

(a) See footnote (b) to Table 6.7.

**TABLE 6.9 BARLEY FOR GRAIN, VICTORIA**

	Area	Production	Average yield per hectare
Season	'000 ha	'000 tonnes	tonnes
1985-86	389	476	1.22
1985-86 (a)	379	464	1.22
1986-87	265	444	1.68
1987-88	366	529	1.45
1988-89	350	544	1.55
1989-90	389	696	1.79
1990-91	463	651	1.41

(a) See footnote (b) to Table 6.7.

**TABLE 6.10 OTHER CEREAL CROPS FOR GRAIN**

Season	Rye		Maize		Millet		Triticale	
	Area	Production	Area	Production	Area	Production	Area	Production
	'000 ha	'000 tonnes	'000 ha	'000 tonnes	'000 ha	'000 tonnes	'000 ha	'000 tonnes
1985-86	10.0	5.9	1.1	5.0	1.7	2.6	11.9	18.6
1985-86 (a)	10.0	5.9	1.0	5.0	1.6	2.5	11.7	18.4
1986-87	22.8	19.0	0.6	3.2	2.8	4.5	17.6	28.5
1987-88	11.6	6.8	1.3	5.5	1.4	2.1	18.3	27.4
1988-89	8.1	4.8	0.3	1.4	1.0	1.6	16.0	25.8
1989-90	8.3	4.7	0.3	1.0	1.8	3.0	14.8	25.9
1990-91	11.0	7.1	0.3	2.0	1.3	2.1	18.3	32.7

(a) See footnote (b) to Table 6.7.

**TABLE 6.11 SILAGE MADE, AND FARM STOCKS OF SILAGE AND HAY, BY STATISTICAL DIVISION**  
(tonnes)

Statistical division	Silage made, season 1990-91	Stocks at 31 March 1991	
		Silage	Hay
Melbourne	12,656	11,991	73,889
Barwon	21,174	23,954	160,984
Western District	63,435	52,825	497,474
Central Highlands	6,428	15,155	177,471
Wimmera	1,026	4,244	150,853
Mallee	1,531	7,308	91,301
Loddon-Campaspe	6,123	9,124	241,967
Goulburn	17,593	24,893	408,023
Ovens-Murray	22,820	34,455	132,586
East Gippsland	8,583	13,493	88,715
Gippsland	94,516	47,029	409,469
<b>Total Victoria</b>	<b>255,885</b>	<b>244,470</b>	<b>2,432,732</b>

TABLE 6.12 HAY PRODUCTION, VICTORIA, SEASON 1990-91

<i>Variety</i>	<i>Area</i>	<i>Production</i>	<i>Average yield per hectare</i>
	hectares	tonnes	tonnes
Meadow grass and clover	429,984	1,696,308	3.95
Oaten	28,847	112,986	3.92
Lucerne	25,647	138,836	5.41
Wheaten	5,211	12,937	2.48
Barley and other	2,167	5,172	2.39
<b>Total</b>	<b>491,856</b>	<b>1,966,239</b>	<b>4.00</b>

TABLE 6.13 SELECTED OILSEEDS PRODUCTION, VICTORIA

<i>Season</i>	<i>Area (hectares)</i>	<i>Production (tonnes)</i>	<i>Average yield per hectare (tonnes)</i>
<b>LINSEED</b>			
1985-86	3,399	5,346	1.57
1985-86 (a)	3,374	5,325	1.58
1986-87	2,618	2,926	1.12
1987-88	4,040	4,336	1.07
1988-89	1,981	2,539	1.28
1989-90	709	681	1.00
1990-91	2,187	2,129	0.97
<b>RAPESEED (b)</b>			
1985-86	21,785	24,543	1.13
1985-86 (a)	21,670	24,434	1.13
1986-87	18,117	21,699	1.20
1987-88	21,080	22,730	1.08
1988-89	13,345	16,327	1.22
1989-90	12,392	16,609	1.30
1990-91	10,235	9,544	0.93
<b>SAFFLOWER</b>			
1985-86	9,432	6,264	0.66
1985-86 (a)	9,174	6,136	0.67
1986-87	10,448	7,425	0.71
1987-88	20,878	14,467	0.69
1988-89	25,824	20,126	0.78
1989-90	21,842	13,580	0.60
1990-91	7,891	4,398	0.56
<b>SUNFLOWER</b>			
1985-86	13,240	14,894	1.12
1985-86 (a)	12,806	14,297	1.12
1986-87	7,359	8,019	1.09
1987-88	4,161	7,234	1.74
1988-89	3,943	6,117	1.55
1989-90	3,187	5,331	1.70
1990-91	1,742	3,041	1.75

(a) See footnote (b) to Table 6.7.

(b) Includes canola.

TABLE 6.14 LEGUMES FOR GRAIN, VICTORIA

Season	Lupins		Field peas		Total (a)	
	Area	Production	Area	Production	Area	Production
	'000 ha	'000 tonnes	'000 ha	'000 tonnes	'000 ha	'000 tonnes
1985-86	24.2	30.4	136.7	137.0	161.9	168.6
1985-86 (b)	23.5	29.7	135.9	136.5	160.4	167.3
1986-87	27.6	37.2	197.8	334.8	232.5	384.7
1987-88	37.2	35.2	236.8	258.5	289.8	311.2
1988-89	34.9	37.0	221.1	263.7	280.7	335.6
1989-90	35.9	41.2	154.4	198.2	237.7	314.9
1990-91	33.2	29.6	165.2	131.7	291.4	224.4

(a) Includes chick peas, dried edible beans, etc.

(b) See footnote (b) to Table 6.7.

TABLE 6.15 AREA, PRODUCTION, AND YIELD OF LEGUMES FOR GRAIN, BY STATISTICAL DIVISION, YEAR ENDED 31 MARCH 1991

Statistical division	Lupins for grain			Field peas for grain			Total legumes for grain (a)		
	Area	Prod'n	Yield	Area	Prod'n	Yield	Area	Prod'n	Yield
	'000 ha	'000 tonnes	tonnes /ha	'000 ha	'000 tonnes	tonnes /ha	'000 ha	'000 tonnes	tonnes /ha
Melbourne	0.1	0.1	0.9	0.1	0.1	1.2	0.1	0.1	1.0
Barwon	0.8	1.4	1.7	1.0	1.5	1.5	1.8	2.8	1.6
Western District	0.6	0.6	0.9	0.2	0.3	1.3	1.2	1.2	1.1
Central Highlands	0.6	0.9	1.4	0.2	0.3	1.5	1.0	1.4	1.4
Wimmera	8.2	4.5	0.5	62.6	50.3	0.8	151.7	108.1	0.7
Mallee	4.4	3.3	0.7	86.2	66.1	0.8	95.6	73.4	0.8
Loddon-Campaspe	4.9	4.0	0.7	13.1	11.0	0.8	24.7	19.2	0.8
Goulburn	9.6	12.1	1.3	1.4	1.7	1.2	11.5	14.6	1.3
Ovens-Murray	2.8	2.7	1.0	0.5	0.5	1.0	3.4	3.2	0.9
East Gippsland	0.1	0.1	0.9	-	-	-	0.4	0.3	0.5
<b>Total Victoria</b>	<b>33.3</b>	<b>29.6</b>	<b>0.9</b>	<b>165.2</b>	<b>131.7</b>	<b>0.8</b>	<b>291.4</b>	<b>224.4</b>	<b>0.8</b>

(a) Includes chick peas, dried edible beans, etc.

## FRUIT

## Area planted

In Victoria in 1990-91, the area planted with fruit, nuts, and berries was 21,825 hectares and the area of vineyards was 19,250 hectares. Although this total of 40,535 hectares is only about 2.0 per cent of the total area under crops in Victoria, fruit and vine growing make a significant contribution to the economy of the State.

## Tree fruit

In Victoria, the main fruit growing areas are in the Goulburn, Mallee, Melbourne, and East Central Statistical Divisions. There are smaller areas in the North Eastern Statistical Division and also in the Gippsland, Bacchus Marsh, and Ballarat areas.



**Small fruit**

Climatic requirements have restricted the commercial production of strawberries, and cane and bramble fruits in particular, to the cooler southern regions of Victoria. Most of the fruit is grown in the hills of the Eastern Melbourne Metropolitan and Mornington Peninsula areas which are relatively close to the Melbourne market. During the last few years fruit growers in other parts of the State interested in diversification have taken up the production of strawberries, raspberries and kiwi fruit, particularly for the fresh fruit market.

**Nuts**

A wide range of nuts can be grown in Victoria. Examples are almonds, walnuts, chestnuts, hazelnuts, pecans, and pistachios. In the past, only a few of these trees have been grown in commercial plantings. Almonds were mainly planted in the northern area; walnuts and chestnuts in situations with deep soil in the north-east, the Dandenongs, and Gippsland; and hazelnuts on shallower soils in the north-east and the Dandenongs. In 1990-91, production of nuts was 2,274 tonnes.

**Grapes**

In Victoria, most wine grapes are grown under irrigation in the Mallee Statistical Division, and in the Goulburn Valley and the Murray Valley areas. Wine grape varieties are also being grown in the traditional non-irrigated areas in the north-east (Rutherglen) and in the west (Great Western) of the State. With increasing interest in wine grapes over recent years, many vineyards of varying sizes have been established in other suitable areas throughout the State.

In 1990-91, Victoria had 18,112 hectares of bearing vines which produced 78,674 tonnes of grapes for winemaking, and 276,747 tonnes for drying and table grapes. There were 1,265 hectares of non-bearing vines.

Table grape production in recent years has risen considerably, from 16,312 tonnes in 1984-85 to 29,119 tonnes in 1990-91.

**OTHER INTENSIVE CROPS****Vegetables**

Most of the fresh vegetable production in Victoria is located in the Melbourne, Central Highlands, Loddon-Campaspe and Goulburn statistical divisions.

Potatoes are mainly grown in the Central Highlands around Ballarat, at Thorpdale in the Gippsland Hills, and at Koo-wee-rup, with additional areas around Warnambool, the Bellarine Peninsula, Colac, the Otway Ranges, and metropolitan market gardens. In 1990-91, the gross value of potato production was \$95m or 6 per cent of the total value of production of crops.

The tomato industry in Victoria is predominantly processing-orientated. With most of the crop produced in the irrigated areas between Shepparton and Rochester in northern Victoria.

**Tobacco**

The tobacco industry in Victoria is centred at Myrtleford in the north-east with production areas in the adjacent valleys of the Buffalo, Ovens, Upper King, and Kiewa Rivers. The 189 tobacco growers in Victoria produced 5,233 tonnes of cured leaf in 1990-91.

**Hops**

In Victoria, production of hops is confined to the alluvial soils in the valleys of the Ovens and King Rivers where good quality irrigation water is available to supplement the natural summer rainfall. The hop is a summer growing perennial plant, propagated from root cuttings, that develops long vines supported on a post and wire trellis system about six metres above the ground surface. In 1990-91 there were 19 hop gardens in Victoria with a total area of 347 hectares, producing 661 tonnes (dried weight) of hops for both domestic brewers and export markets.

**Plant nurseries**

In 1990-91, there were 416 nurseries in Victoria with a total production area of 3,527 hectares (including establishments growing cultivated turf).

**TABLE 6.16 NUMBER OF SELECTED BEARING AND NON BEARING POME AND STONE FRUIT TREES BY STATISTICAL DIVISION, AT 31 MARCH 1991**  
( '000)

<i>Statistical division</i>	<i>Apples</i>	<i>Pears</i>	<i>Peaches</i>	<i>Apricots</i>	<i>Nectarines</i>
Melbourne	643	69	104	1	41
Barwon	2	-	-	1	-
Western District	10	-	1	1	-
Central Highlands	100	14	4	6	8
Wimmera	2	1	2	1	1
Mallee	2	2	63	62	122
Loddon-Campaspe	335	19	-	-	-
Goulburn	510	1,479	631	199	53
Ovens-Murray	155	1	6	1	1
East Gippsland	3	-	3	-	1
Gippsland	49	5	6	-	3
<b>Total Victoria</b>	<b>1,811</b>	<b>1,591</b>	<b>819</b>	<b>271</b>	<b>228</b>

**TABLE 6.17 NUMBER OF SELECTED BEARING AND NON BEARING CITRUS TREES BY STATISTICAL DIVISION, AT 31 MARCH 1991**  
( '000)

<i>Statistical division</i>	<i>Oranges</i>	<i>Lemons and limes</i>	<i>Mandarins</i>
Melbourne	-	10	-
Barwon	-	-	-
Western District	-	-	-
Central Highlands	-	-	-
Wimmera	-	-	-
Mallee	1,120	48	94
Loddon-Campaspe	-	-	-
Goulburn	99	27	-
Ovens-Murray	13	5	-
East Gippsland	-	-	-
Gippsland	-	1	-
<b>Total Victoria</b>	<b>1,233</b>	<b>91</b>	<b>94</b>

**TABLE 6.18 ORCHARD FRUIT PRODUCTION, VICTORIA**  
(tonnes)

Type of fruit	Year ended 31 March -						
	1986	1986(a)	1987	1988	1989	1990	1991
Pears	120,933	120,638	123,859	138,814	119,012	142,419	140,184
Apples	85,404	84,902	99,801	83,451	99,554	94,098	91,269
Peaches	31,691	31,355	31,491	38,061	28,351	32,456	32,271
Apricots	7,682	7,297	6,365	8,567	8,384	9,279	8,227
Cherries	1,198	1,121	1,193	1,092	971	1,291	1,495
Plums and prunes	2,877	2,664	2,865	3,150	3,311	3,411	3,553
Olives	690	690	43	111	121	183	157
Nectarines	1,975	1,914	2,074	2,536	2,425	3,393	3,935
Quinces	41	36	33	23	26	14	14
Figs	3	2	2	5	6	6	3
Oranges -							
Valencias	40,008	39,303	47,132	40,680	35,461	47,733	41,888
Navels	20,481	20,145	20,572	22,094	21,620	22,319	20,323
Other	255	255	324	380	331	305	291
Lemons and limes	8,466	8,257	7,454	6,363	7,265	7,468	6,425
Grapefruit	6,837	6,772	6,033	6,801	6,079	7,123	5,872
Mandarins	2,652	2,571	3,080	2,783	3,259	4,078	3,411

(a) See footnote (b) to Table 6.7.

**TABLE 6.19 SMALL FRUIT PRODUCTION, VICTORIA**  
(kilograms)

Type of fruit	Year ended 31 March -						
	1986	1986(a)	1987	1988	1989	1990	1991
Strawberries	1,475,457	1,430,480	1,619,267	1,747,881	1,621,007	1,665,103	1,724,782
Raspberries	215,712	207,053	312,030	320,055	330,469	375,779	275,416
Kiwi Fruit	239,193	237,643	567,504	860,870	1,656,630	2,238,540	2,271,250
Blueberries	30,471	16,489	21,374	30,893	31,545	50,274	73,399
Loganberries	6,680	6,680	3,585	9,128	4,410	2,947	2,208
Other berries	56,571	52,361	135,651	100,111	95,497	102,331	75,128

(a) See footnote (b) to Table 6.7.

**TABLE 6.20 NUT PRODUCTION, VICTORIA**  
(kilograms)

Type of fruit	Year ended 31 March -						
	1986	1986(a)	1987	1988	1989	1990	1991
Walnuts	78,858	74,224	68,296	47,858	43,364	74,410	47,403
Chestnuts	49,981	27,769	28,525	52,619	52,571	102,867	148,327
Almonds	871,721	864,136	1,161,347	1,655,376	1,478,694	1,895,854	2,077,071

(a) See footnote (b) to table 6.7.

**TABLE 6.21 VITICULTURE, AREA AND PRODUCTION, VICTORIA**

Season	Area (hectares)		Production (tonnes) for -	
	Bearing	Non-bearing	Wine making	Drying and table (a)
1985-86	18,720	1,305	68,761	290,652
1985-86 (b)	18,412	1,240	68,086	288,376
1986-87	17,827	1,127	67,133	221,482
1987-88	17,591	1,172	78,407	250,789
1988-89	17,590	1,267	104,275	221,921
1989-90	17,648	1,265	85,225	215,284
1990-91	18,112	1,138	78,674	276,747

(a) Production for drying is estimated as fresh weight equivalent of dried weight.

(b) See footnote (b) to Table 6.7.

**TABLE 6.22 VEGETABLES FOR HUMAN CONSUMPTION, VICTORIA**

Type of vegetable	Area sown (hectares)			Production (tonnes)		
	1988-89	1989-90	1990-91	1988-89	1989-90	1990-91
Potatoes	13,020	13,319	14,058	368,307	368,409	376,739
Onions	377	399	467	10,656	9,221	11,357
Carrots	1,137	1,287	1,352	40,633	48,625	57,393
Parsnips	113	123	121	2,230	2,598	1,818
Beetroot	28	33	28	354	421	319
Tomatoes	2,880	3,225	3,595	107,077	136,901	164,559
French beans	705	855	738	3,993	5,341	3,824
Green peas -						
Market (a)	108	93	93	164	155	170
Factory (b)	1,806	1,849	1,610	6,929	4,928	4,493
Cabbages	787	727	817	27,750	26,233	32,455
Cauliflowers	1,094	1,206	1,277	25,033	28,668	31,508
Lettuce	1,375	1,372	1,375	30,512	28,613	35,188
Pumpkins	351	518	446	8,338	8,691	7,504

(a) Sold in pod.

(b) Shelled weight.

**TABLE 6.23 TOBACCO PRODUCTION, VICTORIA**

Season	Area	Production	Average yield per hectare
	hectares	tonnes (dry)	tonnes (dry)
1985-86	1,652	3,711	2.25
1985-86 (a)	1,649	3,708	2.25
1986-87	1,819	3,975	2.19
1987-88	2,041	5,102	2.50
1988-89	1,737	4,089	2.35
1989-90	2,116	5,001	2.36
1990-91	1,937	5,233	2.70

(a) See footnote (b) to Table 6.7.



TABLE 6.24 HOP PRODUCTION, VICTORIA

Season	Area	Production	Average yield per hectare
	hectares	tonnes (a)	tonnes
1985-86	471	643	1.37
1985-86 (b)	467	640	1.37
1986-87	336	579	1.72
1987-88	382	695	1.82
1988-89	371	680	1.84
1989-90	348	577	1.66
1990-91	341	661	1.94

(a) Dried weight.

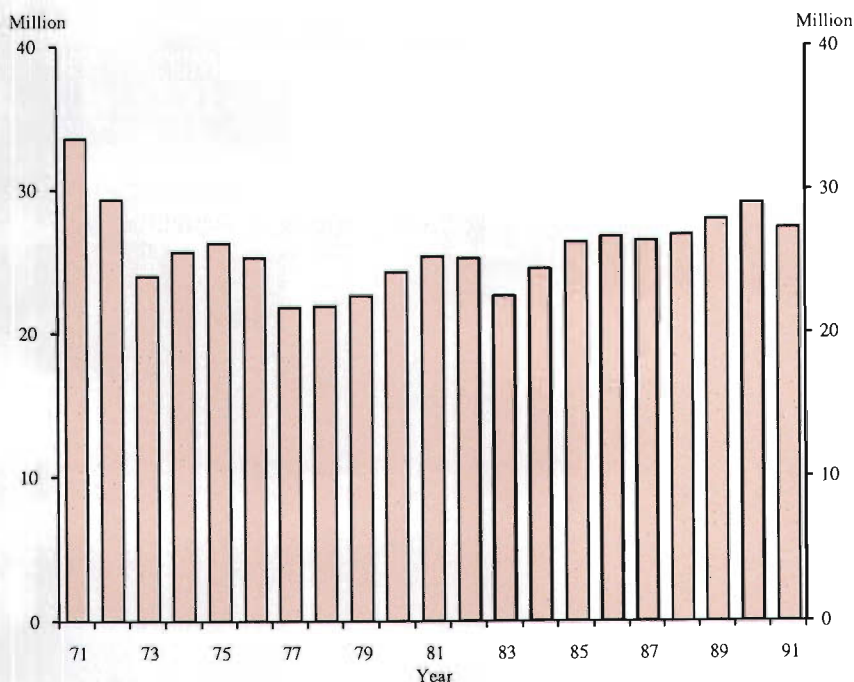
(b) See footnote (b) to Table 6.7.

## LIVESTOCK AND LIVESTOCK PRODUCTS

## Sheep and Wool

At 31 March 1991, the Victorian sheep population was 27.5 million head, well below the 1971 peak of 33.8 million head. Almost 58 per cent of the State's sheep flock is located in the Western District, Central Highlands, and Wimmera Statistical Divisions. Wool production decreased by 6.7 per cent, reaching 133,000 tonnes, with a gross value of \$1,100 million. The number of sheep shorn decreased by 3 per cent while the average yield (for sheep and lambs) decreased to 4.2 kilograms per head.

SHEEP NUMBERS, VICTORIA, AT 31 MARCH



**Lambing**

The lambing performance of the Victorian flock fluctuated (according to seasonal conditions) around a six year average of 86.5 lambs marked for each 100 ewes mated.

Victoria's largest lambing season occurred in 1970-71, when 12.7 million lambs were marked from 14.8 million ewes mated (86 per cent), but in 1983-84 reduced matings led to the smallest lambing season (8.4 million) since 1978-79. This increased sharply in 1984-85 when 10.4 million lambs were marked from 11.7 million ewes mated (89 per cent). Since then there has been a decline, with 8.8 million lambs marked from 10.6 million sheep mated (83 per cent) in 1990-91.

**Mutton and lamb production**

Mutton, the meat from adult sheep, is mainly produced from sheep surplus to the wool industry. As a result, production patterns correspond closely to expansions and contractions in that industry. In 1990-91 mutton production was 87,000 tonnes, well down on the 1971-72 peak of 247,000 tonnes.

Prime lamb producers are found throughout the State. However, early to mid-season producers are distributed in a broad band across northern Victoria, including some irrigated areas. In addition, a considerable number of early lambs are brought from southern New South Wales for slaughter in Victoria. Mid to late-season producers are located mainly in the Western District, Central Highlands, Gippsland, and parts of the Ovens-Murray Statistical Divisions of the State. In 1990-91, 113,000 tonnes of lamb were produced.

**Meat cattle**

The Victorian environment is very favourable for beef production with cattle able to graze on pasture throughout the year.

Most of the Victorian breeding herds are located in the Western District, Goulburn, Ovens-Murray, East Gippsland, and Gippsland Statistical Divisions. A significant proportion of Victorian beef and veal production was exported during 1990-91, major markets being the USA, Japan, and Republic of Korea.

**Milk cattle**

Dairy farming in Victoria is largely confined to the higher rainfall areas of Gippsland, the Western District, and the northern irrigation areas. With minor fluctuations, milk cattle numbers have gradually declined from the 1973 peak of 1,977,000. There were 1,423,000 milk cattle at 31 March 1991, 22,000 fewer than the previous year.

**Pigs**

The number of commercial establishments with pigs fell from 1,468 in 1984-85 to 848 in 1990-91. During the same period the average herd size increased from 278 to 475 pigs. This trend toward fewer but larger units is expected to continue, with the bulk of the industry becoming increasingly capital-intensive and established in grain growing areas. The number of pigs in Victoria at 31 March 1991 was 403,000.

## Poultry

The trend in the Victorian egg industry has been towards larger specialised farms, with egg producers, hatcheries, and pullet growers using modern poultry housing, equipment, and labour saving machinery.

The main areas of commercial egg production in Victoria are centred on the outskirts of the Melbourne metropolitan area and in the Bendigo district, together with a large centre around Geelong, and substantial flocks in Ballarat, the Wimmera, Goulburn Valley, the north-east, and the La Trobe Valley.

Farms consisting of one person or one family usually manage 5,000 to 15,000 layers. There are, however, many larger farms employing labour with up to 40,000 layers, and a few with much bigger establishments.

In 1990-91, there were 75.2 million chickens, hens, stags, and ducks and drakes slaughtered for human consumption. The total dressed weight was 106,036 tonnes.

Most broiler farms range in capacity from 30,000 to 100,000 broilers, and with the present average of 5.5 batches of broiler chickens a year, these farms may produce from 165,000 to 550,000 broilers a year.

The main broiler production centres are located on the Mornington Peninsula, in areas east and south-east of Melbourne, and in the Geelong area - near the processing works and the main centres of consumption. Most of Victoria's production is consumed locally, with very little being exported.

## Apiculture

Honey production in Victoria was 4,129 tonnes in 1990-91. The bulk of the honey produced is sold to large processors who clarify and pack the honey. Nearly 50 per cent of the annual production is exported, chiefly to the United Kingdom.

**TABLE 6.25 SELECTED LIVESTOCK NUMBERS, VICTORIA**  
(<sup>'000</sup>)

Season	Cattle			Sheep	Pigs
	Dairy	Beef	Total		
1985-86	1,534	2,187	3,720	26,895	432
1985-86 (a)	1,513	1,870	3,383	25,716	427
1986-87	1,464	2,014	3,478	26,586	432
1987-88	1,436	2,038	3,474	26,997	437
1988-89	1,438	2,071	3,509	28,067	423
1989-90	1,445	2,200	3,646	29,268	428
1990-91	1,423	2,208	3,631	27,494	403

(a) See footnote (b) to Table 6.7.

**TABLE 6.26 LIVESTOCK SLAUGHTERED, VICTORIA**  
(<sup>'000</sup>)

Types of livestock	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91
Sheep	3,863	3,857	3,530	3,053	3,326	4,054
Lambs	7,987	6,634	7,111	6,264	6,200	6,246
Cattle and calves	2,045	2,081	2,054	1,875	1,995	2,229
Pigs	1,020	849	938	917	971	1,013

**TABLE 6.27 SHEEP AND LAMBS BY STATISTICAL DIVISION, AT 31 MARCH 1991**  
(<sup>'000</sup>)

Statistical division	Rams	Ewes	Wethers	Lambs	Total
Melbourne	2	98	91	47	238
Barwon	17	740	419	370	1,548
Western District	81	3,662	2,320	1,799	7,862
Central Highlands	33	1,638	1,500	811	3,982
Wimmera	36	1,696	1,475	747	3,952
Mallee	20	1,069	438	409	1,935
Loddon-Campaspe	27	1,287	1,073	570	2,956
Goulburn	29	1,295	854	455	2,632
Ovens-Murray	8	325	181	116	630
East Gippsland	8	418	308	219	953
Gippsland	10	435	189	172	805
<b>Total Victoria</b>	<b>270</b>	<b>12,661</b>	<b>8,848</b>	<b>5,715</b>	<b>27,494</b>

**TABLE 6.28 LAMBING, VICTORIA**

Season	Ewes mated	Lambs marked	Percentage of lambs marked to ewes mated
	<sup>'000</sup>	<sup>'000</sup>	per cent
1985-86	11,269	9,746	86
1985-86 (a)	10,801	9,344	86
1986-87	10,479	9,001	86
1987-88	10,662	9,399	88
1988-89	10,447	9,029	86
1989-90	10,923	9,504	87
1990-91	10,632	8,843	83

(a) See footnote (b) to Table 6.7.

**TABLE 6.29 SHEEP SHORN AND WOOL CLIPPED, VICTORIA**

Season	Number Shorn		Wool clipped (including crutchings)		Average	
	Sheep	Lambs	Sheep	Lambs	Per sheep	Per lamb
	<sup>'000</sup>	<sup>'000</sup>	tonnes	tonnes	kg	kg
1985-86	27,430	7,548	129,641	11,200	4.7	1.5
1985-86 (a) (b)	23,189	6,381	109,597	9,469	4.7	1.5
1986-87 (a)	22,978	5,942	115,684	9,281	5.0	1.6
1987-88 (a)	23,545	6,365	118,620	9,597	5.0	1.5
1988-89 (a)	24,357	6,225	122,566	9,927	5.0	1.6
1989-90 (a)	25,773	6,308	132,710	10,028	5.1	1.6
1990-91	25,939	5,716	124,881	8,292	4.7	1.5

(a) Calculated directly from Census data collected at 31 March. Previous data were 'industry best estimates' compiled at 30 June - see publication 7211.0 for details.

(b) See footnote (b) to Table 6.7.



**TABLE 6.30 SHEEP SHORN AND WOOL CLIPPED BY STATISTICAL DIVISION,  
SEASON 1990-91**

Statistical division	Number Shorn		Wool clipped (including crutchings)		Average	
	Sheep	Lambs	Sheep	Lambs	Per sheep	Per lamb
	'000	'000	tonnes	tonnes	kg	kg
Melbourne	213	43	1,067	55	5.0	1.3
Barwon	1,422	355	6,495	494	4.6	1.4
Western District	7,411	1,738	33,244	2,407	4.5	1.4
Central Highlands	3,766	684	17,670	1,002	4.7	1.5
Wimmera	3,906	812	20,030	1,208	5.1	1.5
Mallee	1,688	417	9,229	684	5.5	1.6
Loddon-Campaspe	2,853	636	14,943	934	5.2	1.5
Goulburn	2,503	532	11,992	793	4.8	1.5
Ovens-Murray	573	121	2,553	172	4.5	1.4
East Gippsland	892	171	4,391	243	4.9	1.4
Gippsland	712	207	3,266	301	4.6	1.5
<b>Total Victoria</b>	<b>25,939</b>	<b>5,716</b>	<b>124,881</b>	<b>8,292</b>	<b>4.8</b>	<b>1.5</b>

**TABLE 6.31 TOTAL WOOL PRODUCTION, VICTORIA**

Season	Clip	Stripped from or exported on skins (greasy)	Total quantity (greasy)
	tonnes	tonnes	tonnes
1985-86	140,841	30,067	170,908
1985-86 (a)	135,102	n.a.	n.a.
1986-87	124,965	33,728	158,693
1987-88	128,217	32,034	160,251
1988-89	132,493	25,175	157,668
1989-90	142,737	27,974	170,711
1990-91	133,172		

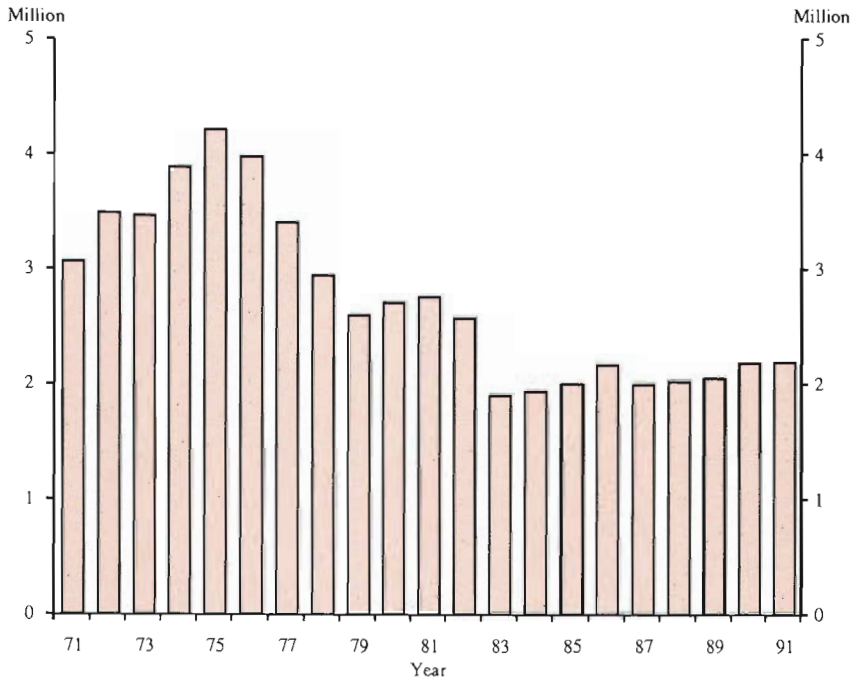
(a) See footnote (b) to Table 6.7.

**TABLE 6.32 DISTRIBUTION OF MEAT CATTLE BY STATISTICAL DIVISION  
AT 31 MARCH 1991  
( '000)**

Statistical division	Bulls and Bull Calves for service	Cows and heifers	Calves under 1 year	Other (a)	Total
Melbourne	4	68	37	21	130
Barwon	3	50	29	16	99
Western District	15	244	112	75	446
Central Highlands	2	44	24	14	84
Wimmera	1	19	12	6	38
Mallee	2	29	22	10	63
Loddon-Campaspe	4	65	46	40	155
Goulburn	10	150	91	50	301
Ovens-Murray	7	143	87	58	295
East Gippsland	6	100	54	23	182
Gippsland	10	177	110	117	415
<b>Total Victoria</b>	<b>65</b>	<b>1,089</b>	<b>623</b>	<b>431</b>	<b>2,208</b>

(a) Steers and bullocks, 1 year and over.

**SHEEP NUMBERS, VICTORIA, AT 31 MARCH**



**TABLE 6.33 DISTRIBUTION OF MILK CATTLE BY STATISTICAL DIVISION  
AT 31 MARCH 1991  
(<sup>'000</sup>)**

Statistical division	Bulls and Bull Calves	Cows in milk and dry	Heifer and heifer Calves	Total milk cattle (a)
Melbourne	-	25	12	37
Barwon	1	73	31	105
Western District	5	212	89	307
Central Highlands	1	5	3	8
Wimmera	-	1	1	2
Mallee	-	23	11	35
Loddon-Campaspe	1	90	42	134
Goulburn	4	207	95	305
Ovens-Murray	1	38	16	55
East Gippsland	1	49	21	70
Gippsland	5	250	112	367
<b>Total Victoria</b>	<b>19</b>	<b>973</b>	<b>431</b>	<b>1,423</b>

(a) Excludes house cows.

**TABLE 6.34 MILK PRODUCTION, VICTORIA**

<i>Year ended 30 June -</i>	<i>Million litres</i>	<i>Year ended 30 June -</i>	<i>Million litres</i>
1986	3,575	1989	3,792
1987	3,692	1990	3,787
1988	3,649	1991	3,908

Source: Australian Dairy Corporation.

**TABLE 6.35 PIGS AND PIG KEEPERS BY STATISTICAL DIVISION AT 31 MARCH 1991**

<i>Statistical division</i>	<i>Boars</i>	<i>Breeding sows</i>	<i>All other</i>	<i>Total pigs</i>	<i>Pig keepers</i>
Melbourne	205	2,584	17,582	20,371	17
Barwon	61	851	5,207	6,119	26
Western District	156	1,430	15,412	16,998	75
Central Highlands	1451	2,109	18,085	20,339	32
Wimmera	358	4,959	36,604	41,921	162
Mallee	282	3,539	24,967	28,788	140
Loddon-Campaspe	1,165	18,955	170,125	190,245	186
Goulburn	596	8,998	57,768	67,362	131
Ovens-Murray	150	1,902	13,427	15,479	67
East Gippsland	22	247	1,526	1,795	14
Gippsland	130	2,216	15,202	17,548	60
<b>Total Victoria</b>	<b>3,284</b>	<b>47,964</b>	<b>376,913</b>	<b>428,161</b>	<b>918</b>

**TABLE 6.36 POULTRY SLAUGHTERED FOR HUMAN CONSUMPTION, VICTORIA**  
(<sup>000</sup>)

<i>Year ended 30 June-</i>	<i>Chickens (i.e. broilers, fryers, or roasters)</i>	<i>Hens and stags</i>	<i>Ducks and drakes</i>
1986	61,644	2,614	616
1987	62,466	2,441	637
1988	68,325	2,829	703
1989	68,943	2,719	633
1990	68,335	2,154	657
1991	72,165	2,321	727

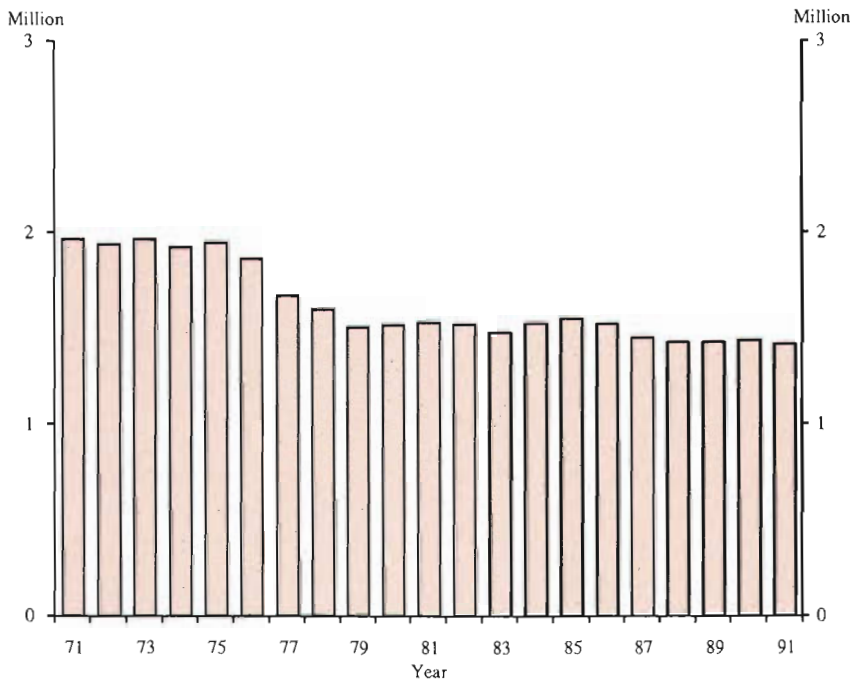
**TABLE 6.37 DRESSED WEIGHT OF POULTRY SLAUGHTERED, FRESH AND FROZEN (a) (b), VICTORIA**  
(<sup>000</sup> kg)

<i>Year ended 30 June-</i>	<i>Chickens (i.e. broilers, fryers, or roasters)</i>	<i>Hens and stags</i>	<i>Ducks and drakes</i>
1986	84,434	4,029	1,132
1987	84,646	3,959	1,202
1988	96,279	4,655	1,326
1989	97,409	4,547	1,206
1990	92,608	3,708	1,222
1991	100,529	4,130	1,377

(a) Dressed weight of whole birds, pieces, and giblets intended for sale as reported by producers.

(b) Fresh: sold immediately after slaughter or chilled for sale soon after. Frozen: frozen hard for storage of indefinite duration.

**MILK CATTLE NUMBERS, VICTORIA, AT 31 MARCH**



**PIG NUMBERS, VICTORIA, AT 31 MARCH**

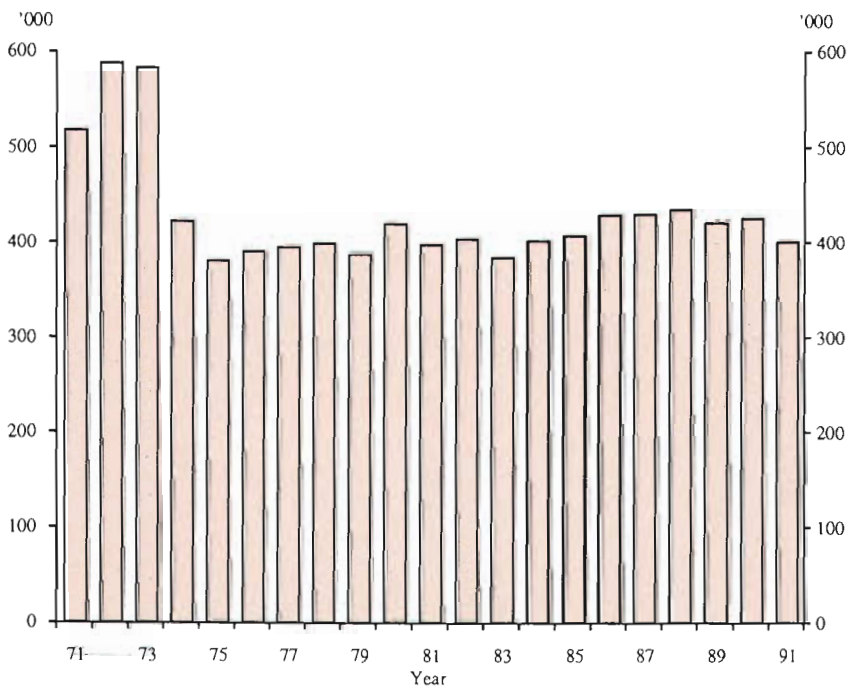




TABLE 6.38 BEEHIVES, HONEY, AND BEESWAX, VICTORIA

Year ended 30 June-	Beekeepers	Hives	Production	
			Honey	Beeswax
	number	number	tonnes	tonnes
1986	456	101,002	4,210	81
1986 (a)	107	58,116	3,022	58
1987	111	58,948	3,107	52
1988	145	59,377	3,824	64
1989	130	50,561	2,886	66
1990	131	56,657	3,127	58
1991	149	60,747	4,129	71

(a) See footnote (b) to Table 6.7.

## REFERENCES

## ABS publications

- Agricultural Industries, Australia, Structure of Operating Units* (7102.0)  
*Australian National Accounts, National Income and Expenditure* (5206.0)  
*Environmental Issues and Usage of National Parks, Australia* (4115.0)  
*Principal Agricultural Commodities, Australia, Preliminary* (7111.0)  
*Principal Agricultural Commodities, Victoria, Preliminary* (7111.2)  
*Selected Agricultural Commodities, Australia, Preliminary* (7112.0)  
*Shearing and Wool Production Forecast, Australia, Preliminary* (7210.0)  
*Sheep Numbers, Shearing and Wool Production Forecast, Australia, Preliminary* (7211.0)  
*Livestock Products, Australia* (7215.0)  
*Livestock and Livestock Products, Victoria* (7221.2)  
*Crops, Pastures and Fruit, Victoria* (7330.2)  
*Agricultural Land Use and Selected Inputs, Victoria* (7411.2)  
*Value of Agricultural Commodities Produced, Victoria* (7501.2)  
*Value of Selected Agricultural Commodities Produced, Australia, Preliminary* (7502.0)  
*Value of Agricultural Commodities Produced, Australia* (7503.0)

## Non-ABS source

- Australian Wheat Board*  
*Australian Dairy Corporation*