

6 Agriculture

Introduction

The agricultural industry in Victoria is quite diverse, ranging from small establishments engaged in dairying or horticulture to large properties mainly devoted to sheep, cattle, or cereal production.

In the main, the dairying, fruit growing, and vegetable industries are located in the higher rainfall districts of the State in Gippsland and the Western District, together with the irrigated areas north of the Great Dividing Range. Cropping and extensive grazing are located mainly in the Wimmera and Mallee and to a lesser extent in the non-irrigated areas in the north and north-east of the State and the drier parts of the Western District and East Gippsland.

Victoria compared with Australia

Victoria's share of the national Gross Domestic Product (GDP) at factor cost for the Agriculture, Forestry, Fishing and Hunting industry was 24.1 per cent in both 1980-81 and 1983-84. This share declined in 1981-82 to 21.4 per cent and reached a low point in 1984-85 of 19.5 per cent. Compared with the total Victorian GDP, this industry contributed between 3.0 per cent and 5.3 per cent over the period 1980-81 to 1985-86.

In terms of farm income, Victoria's share for the latest 6 year period (1980-81 to 1985-86) fluctuated markedly. In 1985-86, farm income was \$534m, the second successive year of decline since the peak of \$1,111m in 1983-84. The 1985-86 figure represented 26.2 per cent of the Australian farm income of \$2,036m.

The gross value of agricultural commodities produced (GVACP) provides a measure of the output from farming. In 1985-86, the GVACP for Victoria was \$3,368m, or 21.8 per cent of the Australian total of \$15,469m. In terms of value, Victoria produced 17.4 per cent of Australia's crops, 23.9 per cent of livestock slaughtered, and 27.2 per cent of livestock products (wool, milk, eggs, and honey).

The 1985-86 season

The 1985-86 season was characterised by increases in the State's sheep flock and beef cattle and pig herds, while milk cattle numbers continued to decline.

In broadacre farming, all major cereals crops recorded lower harvests than were achieved in the previous season. Wheat production decreased 16 per cent from 2,666,000 tonnes in 1984-85 to 2,250,000 tonnes in 1985-86. However the 1985-86 harvest was still above the average crop for the 20 year period ended 1985-86 of 2,020,000 tonnes. Oat production decreased 13 per cent in 1985-86 and barley production fell 25 per cent on the 1984-85 crop, which was the second highest recorded. Record crops of field peas and lupins for grain were harvested.

The 1985-86 Victorian fruit crop saw increased production of oranges, pears, grapes, and almonds but slight decreases were recorded in the production of

apples and peaches. The orange crop was a new record with Valencias in the Northern Mallee making the major contribution. Grape production was the highest for over twenty years, with drying grapes recording the largest increase.

In 1985-86, the total area of land utilised for agricultural activity was 10,432,000 hectares.

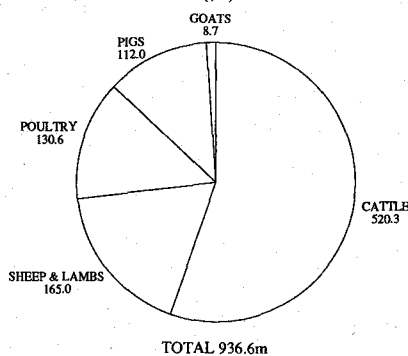
TABLE 6.1 AUSTRALIAN NATIONAL ACCOUNTS: GROSS DOMESTIC PRODUCT AT FACTOR COST, AGRICULTURE, FORESTRY, FISHING, AND HUNTING INDUSTRY

Year	Gross Domestic Product at factor cost		
	Victoria	Australia	Victoria as a percent- age of Australia
	\$m	\$m	per cent
1980-81	1,736	7,192	24.1
1981-82	1,571	7,345	21.4
1982-83	1,177	5,677	20.7
1983-84	2,166	8,989	24.1
1984-85	1,765	9,035	19.5
1985-86	1,855	8,924	20.8

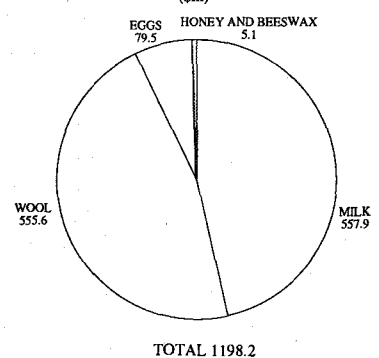
TABLE 6.2 AUSTRALIAN NATIONAL ACCOUNTS: FARM INCOME

Year	Victoria as a percent- age of Australia		
	Victoria	Australia	per cent
	\$m	\$m	
1980-81	931	3,262	28.5
1981-82	714	2,839	25.2
1982-83	210	777	27.0
1983-84	1,111	3,595	30.9
1984-85	589	3,050	19.3
1985-86	534	2,036	26.2

GROSS VALUE OF LIVESTOCK SLAUGHTERED AND OTHER DISPOSALS, VICTORIA 1985-86 (\$m)



GROSS VALUE OF LIVESTOCK PRODUCTS, VICTORIA 1985-86 (\$m)





After 124 years of service, the Newmarket Saleyards closed in 1985. The closing of Newmarket brought to an end an historic era in the livestock industry in Victoria.

(Above) Sale day at the Newmarket saleyards.

(Below) A view of a cobblestone laneway.

Stock and Land



(Right) Margaret Preston
1875-1963 Australian
Wheel Flower, 1928
Woodcut, hand-coloured,
44.2 x 44.7cm.
Purchased 1979



(Left) Dorothy Djukulul,
Ganalbuigu group, Gurrumba
Gurrumba clan, Mulgarum,
Ramingining area, Central
Arnhem Land
Warrnu: Flying Foxes, 1983
Earth pigments on bark,
143.5 x 57.5 cm.
Purchased from admission
funds 1984.

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

Particulars	Year ended 30 June					
	1981	1982	1983	1984	1985	1986
Crops -						
Cereals for grain	505,360	476,765	99,999	814,819	588,176	480,321
Hay	99,461	153,331	177,855	311,638	82,103	143,698
Industrial crops	33,655	24,877	23,443	34,465	35,776	33,091
Vegetables	148,245	153,457	139,223	197,641	158,496	185,605
Grapes	75,537	104,876	107,143	93,116	114,014	123,000
Fruit	110,621	91,653	114,722	113,962	151,554	154,030
Other	63,945	77,559	81,430	93,592	131,078	158,528
Livestock slaughtering and other disposals -						
Cattle and calves	485,372	420,138	467,670	432,498	484,082	520,269
Sheep and lambs	227,051	182,073	154,688	182,611	179,647	165,049
Other	160,356	183,918	211,632	219,695	258,121	242,612
Livestock products -						
Wool	334,356	358,826	324,133	381,858	502,306	555,704
Dairy products	455,713	520,641	615,000	589,062	473,360	557,935
Other	51,087	69,913	71,097	86,019	84,685	84,637
Total	2,750,758	2,818,027	2,588,035	3,550,977	3,243,399	3,404,479

TABLE 6.4 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, AREA, AND LAND UTILISATION, VICTORIA, 1985-86

Statistical division	Number of establishments	Area used for crops(b)(c)	Sown pasture and lucerne	Native pasture	Balance of establishments	Total area of establishments
	(a)	'000 ha	'000 ha	'000 ha	'000 ha	'000 ha
Melbourne	3,080	28	124	49	44	245
Barwon	2,426	65	278	84	80	508
South Western	6,239	90	1,294	251	230	1,865
Central Highlands	2,659	105	490	144	111	850
Wimmera	3,905	846	755	230	610	2,441
Northern Mallee	4,226	754	416	308	1,043	2,521
Loddon-Campaspe	4,537	353	612	304	315	1,584
Goulburn	6,729	208	725	266	309	1,509
North Eastern	2,897	56	298	137	302	793
East Gippsland	1,953	7	238	290	606	1,141
Central Gippsland	4,986	12	451	72	80	615
East Central	1,299	4	74	14	20	112
Total	44,936	2,528	5,754	2,150	3,751	14,184

(a) Includes non land-based bee keeping establishments (ie bee keeping 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 6.5 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, CLASSIFIED BY ESTIMATED VALUE OF AGRICULTURAL OPERATIONS AND MAIN ACTIVITY OF ESTABLISHMENT, BY STATISTICAL DIVISION, 1985-86 (a)

Main activity of establishment	Estimated value of agricultural operations (\$'000)						Total establishments
	<2.5	2.5-9	10-19	20-39	40-99	100+	
MELBOURNE STATISTICAL DIVISION							
Meat cattle	42	344	266	141	72	18	883
Orchard and other fruit	6	27	50	57	72	75	287
Vegetables	3	16	33	68	111	165	396
Nurseries	2	21	36	64	86	58	267
Poultry	1	3	6	13	46	93	162
Potatoes	-	-	2	4	11	17	34
Other	126	202	187	204	265	67	1,051
Total	180	613	580	551	663	493	3,080
BARWON STATISTICAL DIVISION							
Milk cattle	-	14	31	131	421	98	695
Meat cattle	10	141	120	70	43	13	397
Sheep	8	74	98	121	145	53	499
Other	49	102	124	140	239	181	835
Total	67	331	373	462	848	345	2,426
SOUTH WESTERN STATISTICAL DIVISION							
Milk cattle	3	31	71	281	1,223	248	1,857
Sheep	8	130	200	410	948	502	2,198
Sheep and meat cattle	1	37	77	123	274	284	796
Meat cattle	21	207	248	217	128	44	865
Other	52	52	43	76	160	140	523
Total	85	457	639	1,107	2,733	1,218	6,239
CENTRAL HIGHLANDS STATISTICAL DIVISION							
Sheep	18	144	198	261	411	212	1,244
Meat cattle	10	113	66	33	17	4	243
Sheep and meat cattle	-	28	48	51	55	37	219
Sheep and cereals	-	3	25	41	148	120	337
Potatoes	-	4	7	17	60	109	197
Other	51	66	62	75	111	54	419
Total	79	358	406	478	802	536	2,659
WIMMERA STATISTICAL DIVISION							
Sheep and cereals	-	9	75	208	636	449	1,377
Cereal grains	3	36	68	205	653	580	1,545
Sheep	6	76	102	165	250	67	666
Other	47	62	42	51	65	50	317
Total	56	183	287	629	1,604	1,146	3,905
NORTHERN MALLEE STATISTICAL DIVISION							
Grapes	-	24	66	245	986	327	1,648
Cereal grains	3	10	33	117	345	518	1,026
Sheep and cereals	-	3	19	58	187	205	472
Orchard and other fruit	6	32	26	29	69	80	242
Other	99	90	134	153	248	114	838
Total	108	159	278	602	1,835	1,244	4,226

TABLE 6.5 NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY, CLASSIFIED BY ESTIMATED VALUE OF AGRICULTURAL OPERATIONS AND MAIN ACTIVITY OF ESTABLISHMENT, BY STATISTICAL DIVISION, 1985-86 (a) - continued

Main activity of establishment	Estimated value of agricultural operations (\$'000)						Total establishments
	<2.5	2.5-9	10-19	20-39	40-99	100+	
LODDON-CAMPASPE STATISTICAL DIVISION							
Meat cattle	18	151	115	89	56	6	435
Sheep	19	162	217	211	239	89	937
Milk cattle	1	10	20	102	574	114	821
Sheep and cereals	-	20	71	202	458	271	1,022
Sheep and meat cattle	2	39	61	66	64	24	256
Pigs	2	5	4	12	17	64	104
Other	71	147	149	141	256	198	962
Total	113	534	637	823	1,664	766	4,537
GOULBURN STATISTICAL DIVISION							
Milk cattle	1	22	61	346	1,433	189	2,052
Meat cattle	26	315	290	213	136	33	1,013
Sheep and meat cattle	4	46	83	168	237	84	622
Sheep and cereals	-	15	43	158	371	152	739
Orchard and other fruit	4	18	31	37	127	200	417
Cereal grains	2	33	51	65	76	25	252
Meat cattle and cereals	1	13	19	27	54	7	121
Other	131	218	259	341	362	202	1,513
Total	169	680	837	1,355	2,796	892	6,729
NORTH EASTERN STATISTICAL DIVISION							
Meat cattle	22	272	323	313	249	52	1,231
Milk cattle	2	15	13	75	272	71	448
Tobacco	-	-	2	10	92	82	186
Sheep and meat cattle	1	25	43	83	117	32	301
Other	56	98	108	132	204	133	731
Total	81	410	489	613	934	370	2,897
EAST GIPPSLAND STATISTICAL DIVISION							
Meat cattle	16	180	189	162	116	17	680
Milk cattle	2	12	18	59	268	78	437
Sheep and meat cattle	1	20	46	71	113	57	308
Other	26	89	88	111	135	79	528
Total	45	301	341	403	632	231	1,953
CENTRAL GIPPSLAND STATISTICAL DIVISION							
Milk cattle	1	40	97	452	1,541	292	2,423
Meat cattle	24	404	440	396	235	73	1,572
Other	64	129	146	171	263	218	991
Total	89	573	683	1,019	2,039	583	4,986
EAST CENTRAL STATISTICAL DIVISION							
Meat cattle	14	155	147	100	60	13	489
Milk cattle	-	8	30	102	229	23	392
Other	36	56	49	58	119	100	418
Total	50	219	226	260	408	136	1,299

(a) The period covered in this and most subsequent tables in this Chapter is the 1985-86 season which in general refers to the year ended 31 March 1986, but also includes activities which may have been finalised after 31 March (e.g. grape picking). In most of these the growing period occurred before 31 March.

AGRICULTURAL COMMODITIES

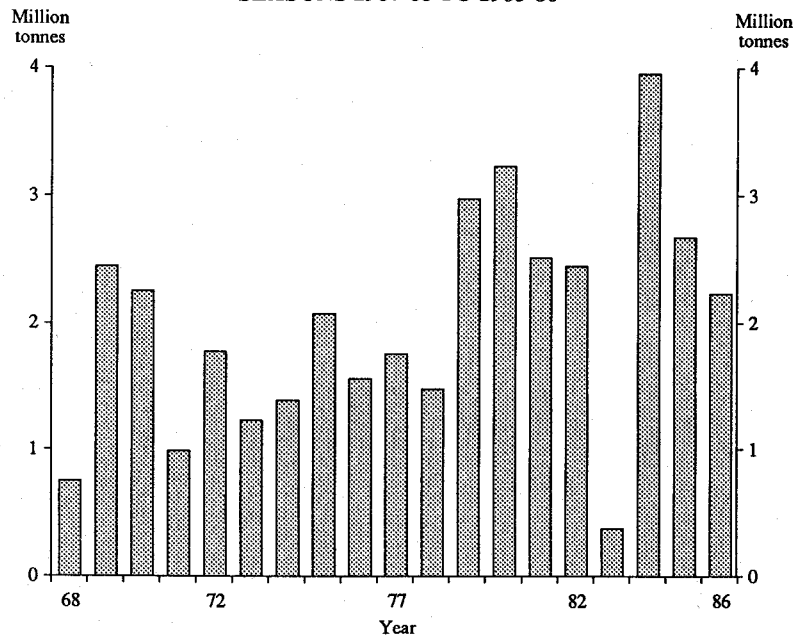
Field crops

The cereals wheat, oats, and barley are the principal field crops in Victoria. These, together with hay production, green feed, and silage, represent about ninety-two 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 1980-81 to 1985-86 was 1.5 million hectares, about sixty per cent of State's total area under crops. The area under wheat is normally subject to fairly minor fluctuations. Over the same period production has averaged 2.4 million tonnes, ranging from a drought reduced 0.4 million tonnes to a record 4.0 million tonnes in 1983-84. In terms of the value of production in the six year period, wheat is a significant crop representing in excess of 31 per cent of the total crop production in Victoria. However, in 1982-83, wheat production reached a low of \$68m or 9 per cent of the total value of crop production.

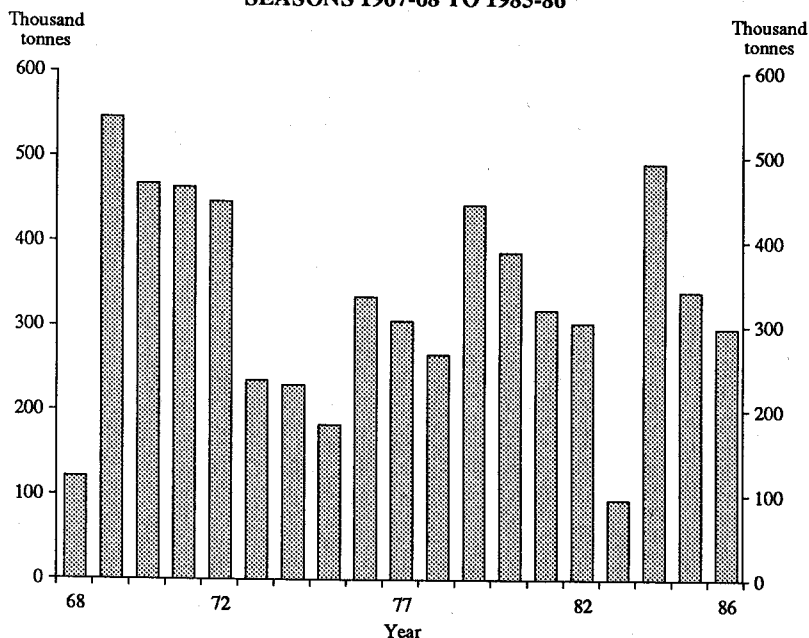
**WHEAT PRODUCTION, VICTORIA,
SEASONS 1967-68 TO 1985-86**



Oats

Oats are sown for grain production, winter grazing, and hay production. The average annual area sown for grain, grazing, and hay between 1980-81 and 1985-86 was 327,000 hectares of which about 73 per cent was harvested for grain, some of it after being grazed during the winter. About half of the oats produced in Victoria are held on farms or used as stock feed, especially during periods of seasonal shortage or in drought conditions. About a quarter of the crop goes to mills, but only a small fraction of this is processed for human consumption. The bulk of the 'milled' oats is destined for incorporation in proprietary stock feeds or as unkilned groats for export. The remaining 25 per cent of the crop is exported as grain.

**OAT PRODUCTION, VICTORIA,
SEASONS 1967-68 TO 1985-86**

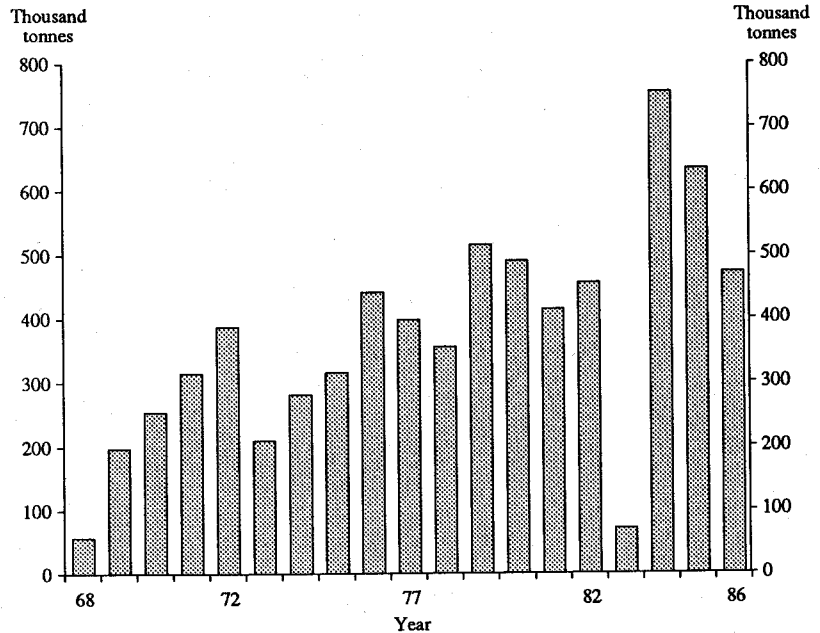


Barley

Barley has proved to be the most popular alternative crop to wheat, particularly in the Northern Mallee. The area sown to barley for all purposes in 1985-86 was 393,000 hectares, compared to 83,000 hectares in 1965-66.

While some barley is grown in all statistical divisions, production has been traditionally centred in two distinct areas where high quality grain is produced. The largest 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,
SEASONS 1967-68 TO 1985-86**



Maize

Over the latest six year period, the area and production of maize has increased. The total area increased from 568 hectares in 1980-81 to 1,091 hectares in 1985-86. Production increased from 3,002 tonnes in 1980-81 to 5,048 tonnes in 1985-86.

Oil seeds

The production of rapeseed increased from 2,000 tonnes in 1980-81 to 25,000 tonnes in 1985-86. The area sown increased from 2,500 hectares to 22,000 hectares during the same period. Safflower production increased from 1,600 tonnes in 1980-81 to 6,200 tonnes in 1985-86, while the area sown increased from 3,400 hectares to 9,400 hectares.

Grain legumes

The legumes, predominantly field peas and lupins, have shown strong growth in recent years. Since 1973, the area of lupins sown has risen from about 100 hectares to over 24,000 hectares 1985-86.

In 1985-86, field peas recorded a record harvest. The area sown to field peas has risen from an average of around 20,000 hectares per annum in the decade to 1983-84, to over 136,000 hectares in 1985-86.

TABLE 6.6 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	tonnes	kg/hL	
1980-81	1,431	2,538	1.77		80.5	
1981-82	1,322	2,467	1.87		81.3	
1982-83	1,327	394	0.30		83.0	
1983-84	1,614	3,971	2.46		76.7	
1984-85	1,523	2,666	1.75		84.1	
1985-86	1,508	2,250	1.49		80.9	

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

TABLE 6.7 OATS FOR GRAIN, VICTORIA

<i>Season</i>	<i>Area</i>		<i>Production</i>		<i>Average yield per hectare</i>
	'000 ha	'000 tonnes	tonnes	tonnes	tonnes
1980-81	219	322	1.47		
1981-82	245	306	1.25		
1982-83	213	98	0.46		
1983-84	324	494	1.52		
1984-85	228	343	1.50		
1985-86	212	300	1.42		

TABLE 6.8 BARLEY FOR GRAIN, VICTORIA

<i>Season</i>	<i>Area</i>		<i>Production</i>		<i>Average yield per hectare</i>	
	<i>2-row</i>	<i>6-row</i>	<i>2-row</i>	<i>6-row</i>	<i>2-row</i>	<i>6-row</i>
	'000 ha	'000 tonnes	tonnes	tonnes	tonnes	tonnes
1980-81	298	5	412	6	1.38	1.20
1981-82	311	4	455	5	1.46	1.23
1982-83	269	9	71	3	0.27	0.34
1983-84	390	13	736	22	1.89	1.69
1984-85	470	15	617	20	1.31	1.34
1985-86	379	10	464	12	1.42	1.26

TABLE 6.9 RYE FOR GRAIN, VICTORIA

<i>Season</i>	<i>Area</i>		<i>Production</i>		<i>Average yield per hectare</i>
	hectares	tonnes	tonnes	tonnes	tonnes
1980-81	1,898	1,390	0.73		
1981-82	2,715	1,622	0.60		
1982-83	3,889	875	0.22		
1983-84	7,138	5,278	0.74		
1984-85	5,380	3,276	0.61		
1985-86	9,968	5,926	0.59		

TABLE 6.10 MAIZE FOR GRAIN, VICTORIA

Season	Area			Production			Average yield per hectare
	Hybrid	Other	Total	Hybrid	Other	Total	
	hectares			tonnes			tonnes
1980-81	557	11	568	2,939	63	3,002	5.29
1981-82	434	42	476	2,188	169	2,357	4.95
1982-83	564	38	602	2,331	118	2,449	4.07
1983-84	719	141	860	4,516	508	5,023	5.84
1984-85	1,008	216	1,224	5,333	970	6,303	5.15
1985-86	1,053	39	1,091	4,956	92	5,048	4.63

TABLE 6.11 HAY PRODUCTION, VICTORIA, SEASON 1985-86

Variety	Area	Production	Average yield per hectare
	hectares	tonnes	tonnes
Meadow grass and clover	344,877	1,331,150	3.86
Oaten	44,335	153,849	3.47
Lucerne	26,067	136,820	5.25
Wheaten	7,069	19,457	2.75
Barley and other	2,834	7,034	2.48
Total	425,182	1,648,310	3.88

TABLE 6.12 SILAGE MADE AND FARM STOCKS OF SILAGE AND HAY, VICTORIA
(tonnes)

Statistical division	Silage made, season 1985-86	Stocks at 31 March 1986	
		Silage	Hay
Melbourne	16,057	11,637	74,766
Barwon	23,699	18,699	168,744
South Western	53,729	30,256	508,871
Central Highlands	6,279	7,650	198,797
Wimmera	2,583	4,310	173,177
Northern Mallee	3,491	3,605	73,245
Loddon-Campaspe	5,457	10,116	290,827
Goulburn	16,637	11,807	436,645
North Eastern	20,597	23,416	160,094
East Gippsland	10,255	12,866	88,473
Central Gippsland	98,324	56,909	355,330
East Central	13,450	9,110	57,619
Total	270,559	200,381	2,586,588

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>
LINSEED			
1980-81	4,567	4,057	0.89
1981-82	3,864	3,898	1.01
1982-83	2,067	942	0.46
1983-84	1,973	1,510	0.77
1984-85	1,791	2,222	1.24
1985-86	3,399	5,346	1.57
RAPSEED			
1980-81	2,539	2,078	0.82
1981-82	3,846	3,584	0.93
1982-83	3,822	1,227	0.32
1983-84	4,258	4,161	0.98
1984-85	8,592	8,711	1.01
1985-86	21,785	24,543	1.13
SAFFLOWER			
1980-81	3,366	1,630	0.48
1981-82	4,799	3,113	0.65
1982-83	1,305	491	0.38
1983-84	3,619	2,610	0.72
1984-85	7,038	4,569	0.65
1985-86	9,432	6,264	0.66
SUNFLOWER			
1980-81	8,195	8,552	1.04
1981-82	11,970	10,086	0.84
1982-83	1,170	790	0.68
1983-84	14,105	12,546	0.89
1984-85	12,355	14,407	1.17
1985-86	13,240	14,894	1.12

TABLE 6.14 AREA, PRODUCTION, AND YIELD OF LEGUMES FOR GRAIN, BY STATISTICAL DIVISION, YEAR ENDED 31 MARCH 1986

<i>Statistical division</i>	<i>Lupins for grain</i>			<i>Field Peas for grain</i>			<i>Total Legumes for grain (a)</i>		
	<i>Area</i>	<i>Prod'n</i>	<i>Yield</i>	<i>Area</i>	<i>Prod'n</i>	<i>Yield</i>	<i>Area</i>	<i>Prod'n</i>	<i>Yield</i>
	'000 ha	'000 tonnes	tonnes /ha	'000 ha	'000 tonnes	tonnes /ha	'000 ha	'000 tonnes	tonnes /ha
Melbourne	0.3	0.3	0.98	0.1	0.1	0.51	0.4	0.3	0.82
Barwon	0.8	1.2	1.49	1.4	2.1	1.49	2.2	3.3	1.49
South Western	1.7	2.3	1.31	0.8	1.0	1.29	2.5	3.3	1.30
Central Highlands	0.5	0.7	1.26	0.4	0.8	1.85	1.0	1.6	1.58
Wimmera	4.8	3.9	0.82	81.2	83.3	1.03	86.8	113.0	1.30
Northern Mallee	0.5	0.4	0.70	30.9	24.2	0.78	31.4	24.6	0.78
Loddon-Campaspe	1.5	1.6	1.06	18.6	20.8	1.11	20.1	22.3	1.11

TABLE 6.14 AREA, PRODUCTION, AND YIELD OF LEGUMES FOR GRAIN, BY STATISTICAL DIVISION, YEAR ENDED 31 MARCH 1986 - continued

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
Goulburn	9.3	13.7	1.48	2.7	4.2	1.59	12.0	18.1	1.51
North Eastern	4.5	6.2	1.38	0.4	0.4	1.13	4.9	6.7	1.36
East Gippsland	0.3	0.2	0.87	0.1	-	0.36	0.4	0.4	0.80
Central Gippsland	-	-	0.08	0.1	-	0.21	0.1	-	0.15
Total Victoria	24.2	30.4	1.26	136.7	137.0	1.00	161.9	193.6	1.20

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

FRUIT

Area planted

In Victoria in 1985-86, the area planted with fruit, nuts, and berries was 20,037 hectares, and the area of vineyards was 20,025 hectares. This total of 40,062 hectares is approximately 1.6 per cent of the total area under crops in Victoria, yet fruit and vine growing make a valuable contribution to the economy of the State.

Tree fruit

In Victoria, the main fruit growing areas are in the Goulburn, Northern 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, and 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

In Victoria a wide range of nuts can be grown such as almonds, walnuts, chestnuts, hazelnuts, pecans, pistachios, and others. 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 1985-86, production of nuts was 1026 tonnes.

Grapes

In Victoria, most wine grapes are grown under irrigation in the Northern 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 the increasing interest in wine grapes over recent years, many vineyards of varying sizes have been established in other suitable areas throughout the State.

In 1985-86 Victoria had 18,720 hectares of bearing vines which produced 68,761 tonnes for winemaking and 83,514 tonnes for drying and table grapes. There were 1305 hectares of non-bearing vines.

Between 1960 and 1980, the intake of grapes by wineries had increased from 11,000 tonnes to over 72,000 tonnes. Many of these grapes are now mechanically harvested. Until recently, wineries were able to absorb the greatly increased volume of grapes produced. However, since 1977 there has been evidence of over-production.

Table grape production in recent years has increased considerably, and within the last five years sales of Victorian table grapes on local and export markets have increased to 20,100 tonnes.

OTHER INTENSIVE CROPS

Vegetables

Most of the fresh vegetable production in Victoria is located adjacent to the Melbourne urban area at Werribee and Keilor to the west, and Narre Warren, Clyde, and Keysborough in the sandy south-eastern area.

Potatoes are mainly grown in the Central Highlands around Ballarat, Thorpdale in the Gippsland Hills, and Koo Wee Rup, with additional areas around Warrnambool, the Bellarine Peninsula, Colac, the Otway Ranges, and metropolitan market gardens. In 1985-86, the gross value of potato production was \$74m or 6 per cent 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 192 tobacco growers in Victoria produced 3.7 million kilograms of cured leaf in 1985-86.

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 1985-86 there were 28 hop gardens in Victoria with a total area of 471 hectares producing 643 tonnes (dried weight) of hops for both domestic brewers and export markets.

Plant nurseries

In 1985-86, there were 514 nurseries in Victoria with a total production area of 2,258 hectares (including establishments growing cultivated turf).

TABLE 6.15 NUMBER OF SELECTED BEARING AND NON BEARING ORCHARD FRUIT TREES (EXCLUDING CITRUS) BY STATISTICAL DIVISION, VICTORIA, AT 31 MARCH 1986

<i>Statistical division</i>	<i>Apples</i>	<i>Pears</i>	<i>Peaches</i>	<i>Apricots</i>	<i>Nectarines</i>
Melbourne	509,978	41,753	94,579	2,455	29,796
Barwon	2,326	476	1,327	825	35
South Western	8,514	17	720	666	4
Central Highlands	113,801	18,332	5,561	6,953	8,336
Wimmera	2,646	1,036	3,585	1,589	374
Northern Mallee	2,537	275	34,931	64,113	69,376
Loddon-Campaspe	114,727	24,576	496	285	29
Goulburn	403,015	1,016,492	591,250	121,697	24,630
North Eastern	161,914	1,114	5,938	1,040	318
East Gippsland	2,164	72	250	12	100
Central Gippsland	45,714	945	4,737	117	1,887
East Central	147,516	8,997	15,449	11	8,578
Total	1,514,852	1,114,085	758,823	199,763	143,463

TABLE 6.16 NUMBER OF SELECTED BEARING AND NOT BEARING CITRUS TREES BY STATISTICAL DIVISION, VICTORIA, AT 31 MARCH 1986

<i>Statistical division</i>	<i>Oranges</i>	<i>Lemons and limes</i>	<i>Mandarins</i>
Melbourne	704	13,681	2
Barwon	26	285	-
South Western	-	-	-
Central Highlands	-	460	-
Wimmera	26	-	-
Northern Mallee	871,478	55,643	64,784
Loddon-Campaspe	24	7	4
Goulburn	92,613	23,797	844
North Eastern	13,328	5,134	73
East Gippsland	-	462	-
Central Gippsland	-	20	-
East Central	612	2,874	2
Total	978,811	102,363	65,709

TABLE 6.17 ORCHARD FRUIT PRODUCTION, VICTORIA (tonnes)

<i>Type of fruit</i>	<i>Year ended 31 March -</i>					
	<i>1981</i>	<i>1982</i>	<i>1983</i>	<i>1984</i>	<i>1985</i>	<i>1986</i>
Pears	121,734	85,078	98,712	97,150	114,087	120,924
Apples	77,047	68,535	77,526	64,379	92,493	85,404
Peaches	41,765	33,853	34,702	23,824	32,232	31,691
Apricots	8,611	6,754	7,302	5,857	5,936	7,682
Cherries	2,273	1,920	1,705	1,130	1,170	1,198
Plums and prunes	3,263	3,160	2,810	2,574	2,702	2,877
Olivés	556	1,812	226	938	810	690
Nectarines	1,201	1,658	1,816	1,544	1,696	1,975
Quinces	(a)	(a)	(a)	111	48	41

TABLE 6.17 ORCHARD FRUIT PRODUCTION, VICTORIA - continued
(tonnes)

Type of fruit	Year ended 31 March -					
	1981	1982	1983	1984	1985	1986
Figs	5	(a)	(a)	1	4	3
Oranges -						
Valencias	31,950	26,921	32,936	31,192	37,695	40,008
Navels	20,590	15,506	17,117	16,051	19,470	20,481
Other	1,064	310	468	314	194	255
Lemons and limes	10,197	8,004	5,349	4,134	8,098	8,466
Grapefruit	4,367	4,656	4,913	5,071	5,237	6,837
Mandarins	2,898	2,470	2,509	2,933	3,278	2,652

(a) Not collected.

TABLE 6.18 SMALL FRUIT PRODUCTION, VICTORIA
(kilograms)

Type of fruit	Year ended 31 March -					
	1981	1982	1983	1984	1985	1986
Strawberries	1,012,226	1,044,361	1,055,270	1,443,800	1,481,776	1,475,457
Raspberries	186,464	179,905	204,430	154,622	255,031	215,712
Kiwi Fruit	(a)	(a)	(a)	80,600	103,304	239,193
Blueberries	(a)	(a)	(a)	(a)	12,988	30,471
Gooseberries	4,531	(a)	(a)	2,500	3,324	3,352
Loganberries	8,859	(a)	(a)	6,782	5,280	6,680
Other berries	(a)	(a)	(a)	(a)	50,989	42,482
Passionfruit	(a)	(a)	(a)	(a)	800	900

(a) Not collected.

TABLE 6.19 NUT PRODUCTION, VICTORIA
(kilograms)

Type of fruit	Year ended 31 March -					
	1981	1982	1983	1984	1985	1986
Walnuts	122,267	(a)	(a)	71,550	71,626	78,858
Chestnuts	(a)	(a)	(a)	35,796	46,981	49,981
Almonds	444,829	507,692	603,900	621,747	597,157	871,721
Hazelnuts	(a)	(a)	(a)	15,005	34,437	22,580

(a) Not collected.

TABLE 6.20 VITICULTURE, AREA AND PRODUCTION, VICTORIA

Season	Area		Production for -	
	Bearing	Non-bearing	Wine making	Drying and table (a)
	hectares	hectares	tonnes	tonnes
1980-81	19,617	1,139	65,076	196,927
1981-82	19,327	1,192	57,699	292,125
1982-83	18,976	1,365	64,900	254,117
1983-84	18,806	1,321	82,973	259,160
1984-85	19,132	1,352	96,807	255,631
1985-86	18,720	1,305	68,761	290,657

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

TABLE 6.21 VEGETABLES FOR HUMAN CONSUMPTION, VICTORIA

Type of vegetable	Area sown			Production		
	1983-84	1984-85	1985-86	1983-84	1984-85	1985-86
	hectares	hectares	hectares	tonnes	tonnes	tonnes
Potatoes	13,497	14,922	14,192	362,379	379,074	366,971
Onions	474	628	580	11,210	14,918	12,795
Carrots	1,065	1,046	980	36,581	34,349	31,041
Parsnips	224	186	179	5,423	5,192	4,925
Beetroot	26	26	23	579	359	320
Tomatoes	3,150	3,433	2,705	105,409	115,068	99,857
French beans	323	338	481	1,071	1,022	2,329
Green peas -						
Market (a)	281	181	1,006	520	723	1,838
Factory (b)	276	291	211	1,233	648	365
Cabbages	857	772	728	28,873	25,573	25,060
Cauliflowers	1,110	1,150	1,070	30,494	28,521	39,581
Lettuce	1,162	1,320	1,269	27,147	28,018	27,600
Pumpkins	644	609	545	9,418	10,515	8,863

(a) Sold in pod.

(b) Shelled weight.

TABLE 6.22 TOBACCO PRODUCTION, VICTORIA

Season	Area	Production	Average yield
	hectares	tonnes (dry)	per hectare tonnes (dry)
1980-81	3,015	5,911	1.96
1981-82	2,757	4,418	1.60
1982-83	2,803	4,928	1.76
1983-84	2,823	5,856	2.07
1984-85	2,146	4,755	2.22
1985-86	1,652	3,711	2.25

TABLE 6.23 HOP PRODUCTION, VICTORIA

Season	Area	Production	Average yield
	hectares	tonnes (a)	per hectare tonnes
1980-81	506	751	1.48
1981-82	461	789	1.71
1982-83	499	491	0.98
1983-84	456	687	1.51
1984-85	420	554	1.32
1985-86	471	643	1.37

(a) Dried weight.

LIVESTOCK AND LIVESTOCK PRODUCTS

Sheep

At 31 March 1986, the Victorian sheep population was 26.9 million head, well below the 1971 peak of 33.8 million head. Almost 60 per cent of the State's sheep flock is located in the South Western, Central Highlands, and Wimmera Statistical Divisions.

Sheep breeds

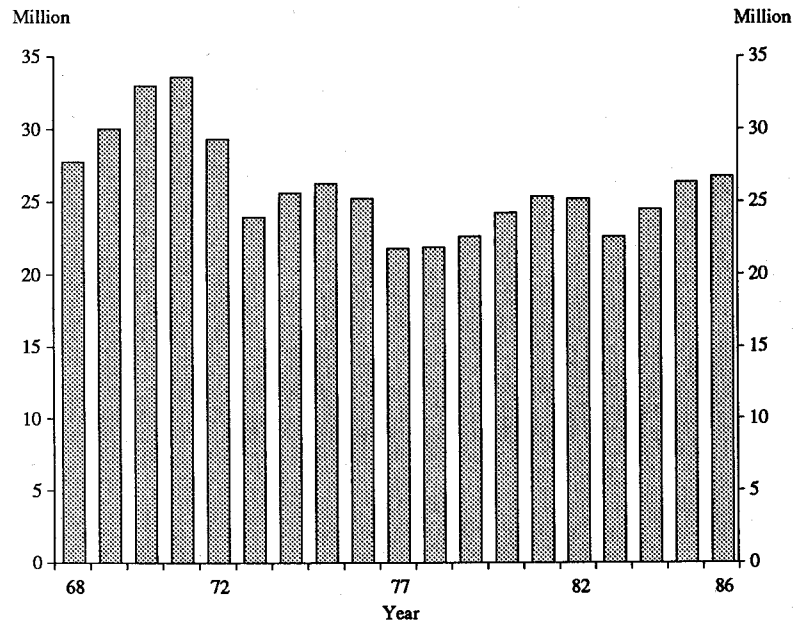
Victorian sheep can be divided broadly into 'wool' and 'meat' breeds. The distinction is necessarily an arbitrary one, since wool is an important source of income from ewes kept for prime lamb production, while mutton is produced mainly from surplus or aged sheep from 'woolgrowing' flocks.

The Merino is the most numerous breed in Victoria, although not as dominant as in the other mainland States. At 31 March 1986, the 15.5 million Merinos represented 57.5 per cent of the Victorian flock.

Other breeds derived from Merino crossbreds and kept mainly for wool production include the Corriedale (half Merino, half Lincoln), 8.7 per cent, and Polwarth (one-quarter Lincoln), 2.0 per cent. Comebacks (predominantly Merino, fine-woolled crossbreds) made up another 8.5 per cent. Other stronger woolled crossbreds are used mainly for prime lamb production. At 31 March 1986, these contributed 23.2 per cent (6.2 million) to the total, compared with 25 per cent at 31 March 1974. Prime lamb breeds developed from British breed crosses, and carpetwool breeds derived from mutant Romney types account for a very small but increasing part of the total flock.

British meat breeds and Australasian breeds developed from them, such as the Poll Dorset, are widely used as sires in crossbreeding programs, so that their

**SHEEP NUMBERS, VICTORIA,
AT 31 MARCH 1968 TO 1986**



influence is much greater than their contribution to total numbers would suggest. British longwool breeds, such as the Border Leicester and the Romney Marsh, are commonly mated to Merino ewes to produce crossbred breeding ewes and prime lambs.

Shortwool breeds, such as the Dorset Horn, Poll Dorset, and Southdown are used mainly as terminal sires, mated with crossbred, Corriedale, or Merino ewes to produce prime lambs.

Lambing

The lambing performance of the Victorian flock fluctuates according to seasonal conditions around a fairly static twenty year average of 83 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 markedly in the following year 1984-85 when 10.4 million lambs were marked from 11.7 million ewes mated (89 per cent). In 1985-86 there was a slight decline with 9.7 million lambs marked from 11.2 million lambs mated (86 per cent).

Mutton and lamb production

Mutton, the meat from adult sheep, is mainly produced from surplus sheep from the wool industry so that production patterns correspond closely to expansions and contractions in that industry. In 1985-86 mutton production was 79,000 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 South Western, Central Highlands, Central Gippsland, and parts of the North Eastern Statistical Divisions of the State.

During 1985-86, domestic consumption of lamb and mutton in Australia remained steady at 17 and 7 kilograms per head per annum, respectively.

Meat cattle

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

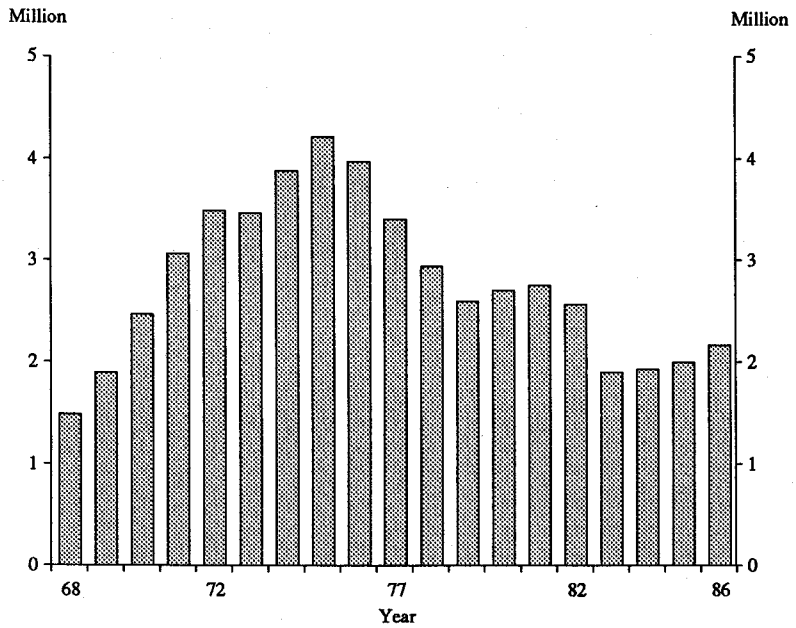
Most of the Victorian breeding herd are in the South Western, Goulburn, North Eastern, East Gippsland, and Central Gippsland Statistical Divisions. A significant proportion of Victorian beef and veal production was exported during 1983-84, the main markets being the USA, Japan, Taiwan, and Canada. During 1983-84, total Australian beef and veal exports decreased, as did exports to the main markets.

National consumption of beef and veal has remained steady at around 42 kilograms per head of population over recent years.

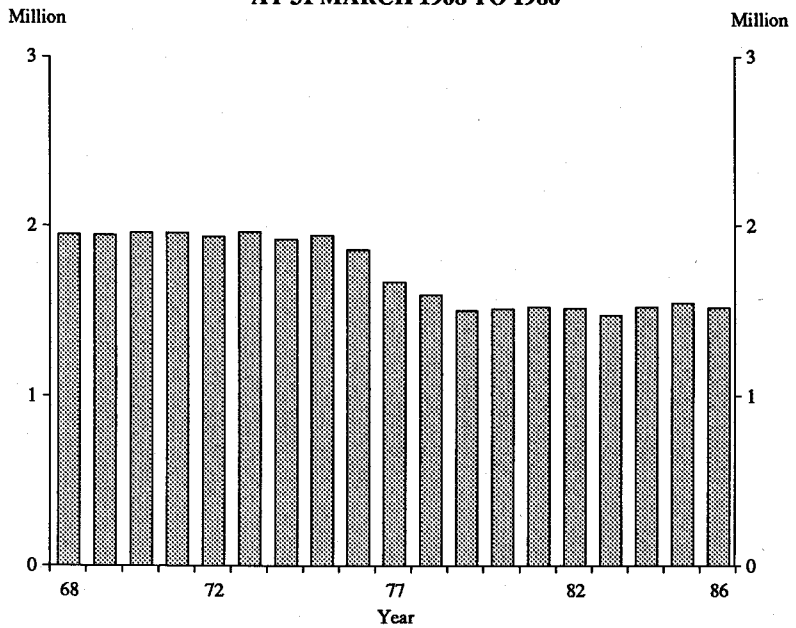
Milk cattle

Dairy farming in Victoria is largely confined to the higher rainfall areas of Gippsland, the Western District, and the northern irrigation areas. Milk cattle numbers decreased 1.6 per cent from 1,559,000 at 31 March 1985 to 1,534,000 at 31 March 1986. Milk cattle numbers have been gradually declining from the 1973 peak of 1,977,000.

**MEAT CATTLE NUMBERS, VICTORIA,
AT 31 MARCH 1968 TO 1986**



**MILK CATTLE NUMBERS, VICTORIA,
AT 31 MARCH 1968 TO 1986**

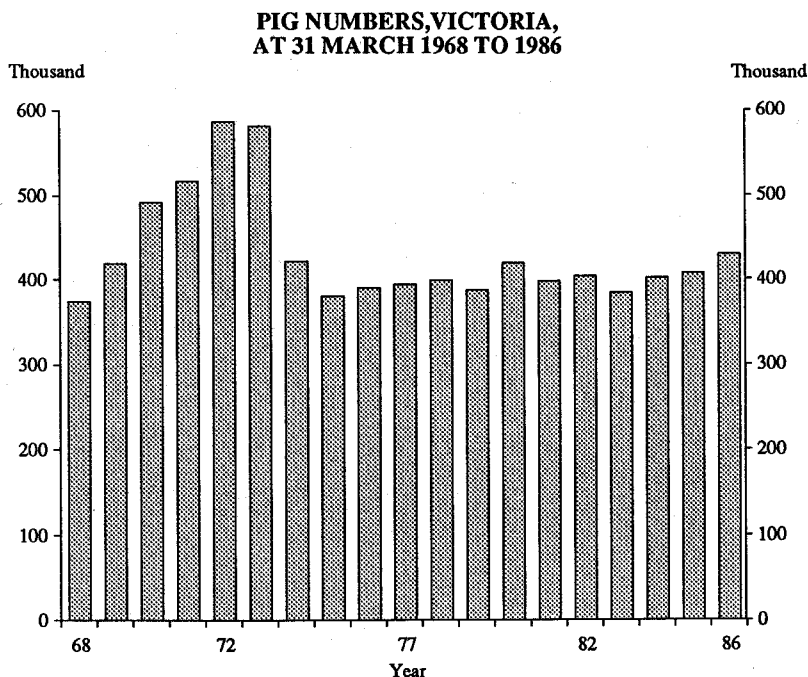


Pigs

Approximately two-thirds of the pig meat consumed in Victoria is produced in this State. The remaining one-third is acquired from other States.

The number of establishments with pigs declined from 1,858 in 1982-83 to 1,470 in 1985-86. During the same period the average herd size increased from 208 to 293 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 1986 was 431,680.



Poultry

The trend in the Victorian egg industry has been towards larger specialised farms, for example, egg producers, hatcheries, and pullet growers, all of which use 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, 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.

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 grow from 165,000 to 550,000 broilers a year.

Apparent annual per capita consumption of poultry meat was approximately 23 kilograms in 1985-86, second only to beef and veal. There has been a marked increase in the proportion of cut-up chicken and further processed chicken products.

The main broiler production centres are located on the Mornington Peninsula, in areas south-east and 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; very little is exported, but some interstate broilers are imported.

Apiculture

Honey production in Victoria declined marginally from 4,224 tonnes in 1984-85 to 4,210 tonnes in 1985-86. The bulk of the honey produced from the 456 beekeepers with 40 or more beehives each, is sold to large processors who clarify and pack the honey. About 58 per cent of the annual production is exported, chiefly to the United Kingdom.

TABLE 6.24 SELECTED LIVESTOCK NUMBERS (a), VICTORIA
(^{'000})

Year	Cattle			Sheep	Pigs
	Dairy	Beef	Total		
1981	1,538	2,775	4,312	25,487	400
1982	1,530	2,591	4,121	25,341	405
1983	1,488	1,921	3,408	22,748	387
1984	1,535	1,952	3,487	24,632	404
1985	1,559	2,017	3,576	26,471	410
1986	1,533	2,186	3,720	26,892	432

(a) A table showing livestock numbers for each year from 1837 is published in the *Victorian Year Book* 1984, pages 700-1.

TABLE 6.25 LIVESTOCK SLAUGHTERED, VICTORIA
(^{'000})

Particulars	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
Sheep	5,115	3,869	3,651	2,061	3,301	3,863
Lambs	6,433	6,174	6,390	6,207	6,777	7,987
Cattle and calves	2,435	2,413	2,668	1,992	1,971	2,045
Pigs	1,149	1,138	1,167	1,237	1,298	1,020

TABLE 6.26 SHEEP AND LAMBS BY STATISTICAL DIVISION AT 31 MARCH 1986
(^{'000})

Statistical division	Rams	Ewes	Wethers	Lambs	Total
Melbourne	3	124	94	50	272
Barwon	20	802	331	363	1,516
South Western	94	4,129	1,831	2,093	8,146
Central Highlands	36	1,762	1,263	859	3,920
Wimmera	40	1,659	1,251	724	3,674
Northern Mallee	13	644	238	240	1,135
Loddon-Campaspe	31	1,402	934	591	2,957

TABLE 6.26 SHEEP AND LAMBS IN EACH STATISTICAL DIVISION AT 31 MARCH 1986 -
continued
 ('000)

<i>Statistical division</i>	<i>Rams</i>	<i>Ewes</i>	<i>Wethers</i>	<i>Lambs</i>	<i>Total</i>
Goulburn	33	1,433	693	506	2,665
North Eastern	9	364	156	136	665
East Gippsland	10	474	281	239	1,004
Central Gippsland	12	486	130	242	870
East Central	1	49	1	19	71
Total	302	13,329	7,202	6,062	26,895

TABLE 6.27 BREEDS OF SHEEP (INCLUDING RAMS), VICTORIA, AT 31 MARCH

<i>Breed</i>	<i>1980</i>		<i>1983</i>		<i>1986</i>	
	<i>Number</i>	<i>Percentage of total</i>	<i>Number</i>	<i>Percentage of total</i>	<i>Number</i>	<i>Percentage of total</i>
Merino -						
Purebred	12,752,386	52.26	11,896,162	52.30	15,472,434	57.53
Comeback	1,130,172	4.63	1,593,642	7.01	2,287,230	8.51
Corriedale	3,135,726	12.85	2,696,234	11.85	2,350,817	8.74
Polwarth	732,463	3.00	579,102	2.55	545,501	2.03
Border Leicester	439,662	1.80	320,141	1.41	291,721	1.08
Cheviot	6,753	0.03	3,233	0.01	1,496	0.01
Dorset Horn	556,201	2.28	237,539	1.04	251,282	0.93
Poll Dorset	443,607	1.82	251,116	1.10	357,881	1.33
Perendale	21,164	0.09	36,526	0.16	49,722	0.18
Romney Marsh	433,876	1.78	486,087	2.14	467,029	1.74
Ryeland	17,014	0.07	12,427	0.05	11,842	0.04
Southdown	134,742	0.55	81,367	0.36	101,392	0.38
Suffolk (including South Suffolk)	29,081	0.12	33,737	0.15	39,234	0.15
Cormo	32,220	0.13	51,573	0.23	90,290	0.34
Zenith	30,554	0.13	26,905	0.12	15,555	0.06
Bond (a)	-	(a)	-	50,474	0.19	
Drysdale	(a)	-	8,626	0.04	28,297	0.11
Tukidale	(a)	-	3,062	0.01	14,047	0.05
Crossbred (including halfbred Merino and coarser)	4,459,959	18.28	4,398,271	19.33	4,402,966	16.37
Other (including unspecified)	44,485	0.18	32,662	0.14	63,050	0.23
Total	24,400,065	100.00	22,748,412	100.00	26,892,261	100.00

(a) Not specified separately until 1983 - included in other in 1980.

TABLE 6.28 LAMBING, VICTORIA

Season	Ewes mated	Lambs marked	Percentage of lambs marked to ewes mated
	'000	'000	per cent
1980-81	10,836	9,167	85
1981-82	11,066	8,887	80
1982-83	11,018	9,246	84
1983-84	10,112	8,362	83
1984-85	11,744	10,446	89
1985-86	11,269	9,746	86

TABLE 6.29 SHEEP SHORN AND WOOL CLIPPED, VICTORIA

Season	Shorn		Wool clipped (including crutchings)		Average	
	Sheep	Lambs	Sheep	Lambs	Per sheep	Per lamb
	'000	'000	tonnes	tonnes	kg	kg
1980-81	23,604	6,925	110,884	10,179	4.70	1.47
1981-82	25,360	6,802	115,633	9,509	4.56	1.40
1982-83	22,390	5,920	101,556	8,403	4.54	1.42
1983-84	22,977	5,277	110,715	8,949	4.82	1.70
1984-85	25,784	8,306	129,728	12,744	5.03	1.53
1985-86	27,430	7,548	129,641	11,200	4.72	1.48

TABLE 6.30 SHEEP AND LAMBS SHORN, SEASON 1985-86

Statistical division	Shorn		Wool clipped (including crutchings)		Average	
	Sheep	Lambs	Sheep	Lambs	Per sheep	Per lamb
	'000	'000	tonnes	tonnes	kg	kg
Melbourne	293	58	1,413	85	4.82	1.47
Barwon	1,551	458	7,076	670	4.56	1.46
South Western	8,456	2,637	39,725	4,008	4.70	1.52
Central Highlands	4,053	920	18,232	1,343	4.50	1.46
Wimmera	3,805	915	19,035	1,310	5.00	1.43
Northern Mallee	967	286	4,925	474	5.09	1.66
Loddon-Campaspe	3,037	798	14,843	1,157	4.89	1.45
Goulburn	2,744	698	12,299	999	4.48	1.43
North Eastern	665	170	2,946	239	4.43	1.41
East Gippsland	995	254	4,963	391	4.99	1.54
Central Gippsland	814	324	3,958	479	4.86	1.48
East Central	59	33	267	46	4.53	1.39
Total	27,439	7,549	129,683	11,201	4.73	1.48

TABLE 6.31 TOTAL WOOL PRODUCTION, VICTORIA

Season	Clip	Stripped from or exported on skins, etc. (greasy)	Total quantity (greasy)
	tonnes	tonnes	tonnes
1980-81	121,063	24,756	145,819
1981-82	125,142	22,445	147,587
1982-83	109,959	22,486	132,445
1983-84	119,664	22,409	142,074
1984-85	142,472	24,816	167,288
1985-86	140,884	37,518	178,402

TABLE 6.32 DISTRIBUTION OF MEAT CATTLE, VICTORIA, AT 31 MARCH 1986
(^{'000})

Statistical division	Bulls for service		Cows and heifers	Calves under 1 year	Other (a)	Total
	1 year and over	Under 1 year				
Melbourne	3	1	71	43	18	136
Barwon	3	1	53	27	16	99
South Western	11	4	243	102	64	424
Central Highlands	2	1	47	23	13	86
Wimmera	1	-	18	10	4	33
Northern Mallee	1	-	24	17	7	49
Loddon-Campaspe	3	1	62	45	24	135
Goulburn	8	2	152	86	42	290
North Eastern	6	2	155	83	48	293
East Gippsland	4	1	102	53	18	180
Central Gippsland	8	2	176	100	94	381
East Central	2	1	40	22	17	81
Total	52	17	1,142	611	365	2,187

(a) Other cattle, 1 year and over - Steers, bullocks, etc.

TABLE 6.33 DISTRIBUTION OF MILK CATTLE, VICTORIA, AT 31 MARCH 1986
(^{'000})

Statistical division	Bulls for service		Cows and heifers for milk and cream				Total
	1 year and over	Under 1 year	Cows in milk and dry	Heifers		House cows and heifers	
				1 year and over	Under 1 year		
Melbourne	-	-	21	6	4	-	32
Barwon	1	-	74	19	16	-	111
South Western	5	1	205	50	44	1	306
Central Highlands	-	-	7	3	2	1	13
Wimmera	-	-	2	1	1	1	4
Northern Mallee	-	-	24	6	6	-	36
Loddon-Campaspe	1	1	90	23	22	1	138
Goulburn	4	1	206	51	48	1	311
North Eastern	1	-	46	12	10	1	70
East Gippsland	1	-	52	13	12	1	79
Central Gippsland	5	1	255	63	55	-	380
East Central	1	-	35	9	7	-	53
Total	20	6	1,016	256	228	7	1,533

TABLE 6.34 MILK PRODUCTION, VICTORIA

<i>Year ended 30 June -</i>	<i>Million litres</i>
1981	3,065
1982	3,028
1983	3,164
1984	3,425
1985	3,540
1986	3,575

TABLE 6.35 POULTRY SLAUGHTERED FOR HUMAN CONSUMPTION, VICTORIA ('000)

<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>
1981	45,894	2,894	241
1982	42,351	2,508	316
1983	42,315	2,330	389
1984	46,061	2,308	444
1985	55,995	2,264	452
1986	61,644	2,614	616

TABLE 6.36 DRESSED WEIGHT OF POULTRY SLAUGHTERED, FRESH AND FROZEN (a) (b) ('000 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>
1981	56,867	4,354	437
1982	55,526	3,660	563
1983	51,960	4,051	634
1984	61,503	4,249	750
1985	75,086	3,337	865
1986	84,434	4,029	1,132

(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.

TABLE 6.37 PIGS AND PIG KEEPERS, VICTORIA, AT 31 MARCH 1986

<i>Statistical division</i>	<i>Boars</i>	<i>Breeding sows</i>	<i>All other</i>	<i>Total pigs</i>	<i>Pig keepers</i>
Melbourne	357	3,789	25,185	29,331	54
Barwon	78	1,159	7,656	8,893	38
South Western	407	2,165	14,919	17,491	138
Central Highlands	235	2,532	21,467	24,234	60
Wimmera	374	4,530	30,424	35,328	226
Northern Mallee	280	3,018	22,291	25,589	206
Loddon-Campaspe	1,363	19,834	168,638	189,835	290
Goulburn	646	8,092	61,441	70,179	228
North Eastern	186	2,182	16,461	18,829	93

**TABLE 6.37 PIGS AND PIG KEEPERS, VICTORIA,
AT 31 MARCH 1986 - continued**

Statistical division	Production			Total pigs	Pig keepers
	Boars	Breeding sows	All other		
East Gippsland	60	506	2,954	3,520	48
Central Gippsland	108	1,400	5,732	7,240	78
East Central	18	139	1,054	1,211	14
Total	4,112	49,346	378,222	431,680	1,473

TABLE 6.38 BEEHIVES, HONEY, AND BEESWAX, VICTORIA

Year ended 30 June-	Production			
	Beekeepers number	Hives number	Honey tonnes	Beeswax tonnes
1981	446	76,123	5,160	88
1982	444	95,038	5,388	99
1983	406	89,796	2,705	48
1984	381	85,596	3,603	65
1985	436	95,130	4,224	89
1986	456	101,002	4,210	81

REFERENCES

Data sources

The statistics in the preceding pages were mainly derived from the annual Agricultural Census, conducted at 31 March, which collects commodity data from Victorian establishments with agricultural activity. Establishments with agricultural activity have been included since 1983-84 if they had, or were expected to have, an estimated value of agricultural operations (EVAO) of \$2,500 or more. The previous value cut-off was \$1,500.

ABS publications

Agricultural Industries, Australia, Structure of Operating Units (7102.0)
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)
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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

Department of Management and Budget, Victoria, estimates of State accounts compiled by the Policy Planning Division