



DAIRYING AND DAIRY PRODUCTS AUSTRALIA 1980-81

CATALOGUE NO. 7209.0

AUSTRALIAN BUREAU OF STATISTICS Canberra

NOON 15 JANUARY 1982

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AUSTRALIA
1980-81**

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EXPLANATORY NOTES

Introduction

This publication provides a statistical summary of the dairy industry in Australia. It covers numbers of dairy cattle, production, utilisation, stocks, imports and exports of selected dairy products and gross value of whole milk production. Structural statistics of agricultural enterprises classified to the Australian Standard Industrial Classification (ASIC) class 0187, milk cattle, are also included, together with size classification of milk cattle herds.

2. The attention of readers is drawn to the Explanatory notes which are included in many parts of this publication. They have been included to assist users in the interpretation of the relevant statistics.

Related publications

3. Users may also wish to refer to the following publications which are available on request:

Agricultural Sector, Financial Statistics, Australia, 1977-78 (7507.0)

Agricultural Sector, Structure of Operating Units, Australia, 1979-80 (7102.0)

Apparent Consumption of Foodstuffs and Nutrients, Australia, 1979-80 (4306.0)

Apparent Consumption of Selected Foodstuffs, Australia, 1980-81 (Preliminary) (4315.0)

Australian Standard Industrial Classification, Vols 1 and 2 (1201.0 and 1202.0)

Livestock, Australia, 31 March 1980 (7203.0)

Livestock Products, Australia (7215.0) — issued monthly

Manufacturing Establishments, Details of Operations by Industry Class, Australia, 1979-80 (8203.0)

Production Bulletin No. 3: Food, Drink and Tobacco, Australia (8359.0) — issued monthly

Seasonally Adjusted Indicators, Australia, 1981 (1308.0)

Selected Agricultural Commodities, Australia, 1980-81 (Preliminary) (7301.0)

4. In addition to these publications further Agricultural Census details for small areas are available in published form and on magnetic tape and microfiche.

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

Symbols and other usages

- nil or rounded to zero
- .. not applicable
- n.p. not available for separate publication (but included in totals where applicable)
- p preliminary figures or series subject to revision
- n.a. not available
- n.y.a. not yet available
- break in continuity of series (where drawn between two consecutive figures in the same column)

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

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I. MILK CATTLE NUMBERS

The statistics in this section are derived from the annual Agricultural Census, conducted at 31 March, which collects commodity data from establishments with agricultural activity throughout Australia. In recent years, the ABS has been gradually excluding from the statistics those establishments whose contribution to agricultural production is small. While this has resulted in changes to the number of establishments appearing in publications the effect on the statistics of production of major commodities is small. Statistics of minor commodities normally associated with small scale operations may be affected to a greater extent.

2. From 1980, establishments with agricultural activity have been included in the statistics if the enterprises operating the establishments had or were expected to have Estimated Value of Agricultural Operations (EVAO) of \$1,500 or more during the current season. Details of the methods used in the calculation of EVAO are contained in the publication *Agricultural Sector, Structure of Operating Units, Australia, 1979-80* (7102.0).

TABLE 1. NUMBER OF MILK CATTLE

At 31 March		Dairy breed bulls and bull calves used or intended for service		Cows and heifers used or intended for production of milk or cream for sale			House cows and heifers (a)	Total milk cattle (including bulls)
		Bulls 1 year and over	Bull calves under 1 year	Cows (in milk and dry)	Heifers			
					1 year and over	Under 1 year		
1979		43 188	12 307	1 921 467	442 323	369 203	77 924	2 866 759
1980		42 066	13 486	1 869 266	431 389	396 054	77 077	2 829 544
1981		42 909	11 634	1 829 891	462 478	396 016	71 718	2 814 646
1981—								
New South Wales		5 830	1 641	293 782	81 823	56 663	28 180	467 919
Victoria		25 764	6 775	1 028 915	239 804	231 300	11 616	1 544 174
Queensland		5 408	1 208	236 460	60 203	40 030	22 779	366 088
South Australia		2 661	733	100 596	28 205	23 871	3 781	159 847
Western Australia		1 265	612	71 053	28 745	21 322	3 803	126 800
Tasmania		1 971	663	98 748	23 644	22 801	1 492	149 319
Northern Territory		n.p.	n.p.	n.p.	n.p.	n.p.	28	192
A.C.T.		n.p.	n.p.	n.p.	n.p.	n.p.	39	307

(a) One year and over: kept primarily for the establishments' own milk supply.

II. WHOLE MILK PRODUCTION

This publication includes for the first time, in Tables 2 and 3, statistics on the intake of whole milk by factories and the sales of market milk by factories. These statistics have been collected (from milk factories) by the Australian Dairy Corporation (ADC) and replace statistics of whole milk production and utilisation previously compiled by ABS.

2. Previously the ABS milk statistics were compiled mainly from returns showing fluid milk supplied to milk authorities for domestic consumption and from details of the actual and derived quantities of milk used in factories for the manufacture of dairy products.

3. These statistics have been discontinued because of increasing difficulties encountered in deriving estimates of milk used in the manufacture of dairy products.

4. The unreliability of factors used to convert quantities of dairy product to equivalents of whole milk was largely brought about by the introduction of new technology in the processing of milk by factories.

Seasonal adjustment

5. Table 2 includes seasonally adjusted figures for the ADC series whole milk intake by factories. In the seasonal adjustment account has been taken of normal seasonal factors and of trading-day effects because the quantity of milk used for butter and cheese making is derived from the factory production of butter and cheese. Details of the methods used in seasonally adjusting these and other series are contained in *Seasonally Adjusted Indicators, Australia* (1308 0).

TABLE 2. WHOLE MILK INTAKE BY FACTORIES(a)
(Source: Australian Dairy Corporation)
(Million Litres)

	Australia							Seasonally adjusted
	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Original	
Year ended 30 June								
1979	908	3,283	548	332	213	364	5,648	
1980	875	3,151	520	329	222	315	5,412	
1981	778	3,065	516	319	214	289	5,181	
1980-81—								
July	65	139	38	29	20	9	300	453
August	64	273	41	32	21	19	450	460
September	71	383	44	35	22	32	587	437
October	73	468	43	38	23	43	688	436
November	69	445	44	35	21	46	660	435
December	72	395	50	29	19	43	608	421
January	64	304	53	23	16	31	491	417
February	63	218	45	18	13	20	377	417
March	67	174	46	18	14	16	335	425
April	58	122	38	19	14	13	264	427
May	54	77	37	21	15	9	213	431
June	58	67	37	22	16	8	208	421

(a) Includes the whole milk equivalent of farm cream intake.

TABLE 3. MARKET MILK SALES BY FACTORIES(a)
(Source: Australian Dairy Corporation)
(Million Litres)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
Year ended 30 June							
1979	500	433	238	125	115	42	1,453
1980	511	437	249	127	119	41	1,485
1981	520	444	257	131	119	42	1,514
1980-81—							
July	44	38	21	11	9	4	127
August	43	36	21	11	10	4	125
September	42	36	21	10	10	3	123
October	43	37	22	11	10	3	127
November	42	36	21	11	9	4	122
December	44	36	21	11	10	3	126
January	45	37	22	11	10	4	129
February	41	36	21	10	9	3	120
March	46	39	22	11	10	4	133
April	42	38	21	11	10	4	126
May	44	38	22	11	10	4	129
June	43	37	21	11	10	3	126

(a) Includes white, flavoured and high and low fat milk.

III. PRODUCTION OF DAIRY PRODUCTS

Sources of data in Tables 4 to 6 are the Australian Dairy Corporation and State Departments of Agriculture.

TABLE 4. FACTORY PRODUCTION OF BUTTER(a)
(Tonnes)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
<i>Year ended 30 June</i>							
1979	4,090	84,120	5,664	n.p.	n.p.	7,075	104,750
1980	3,189	68,647	3,505	n.p.	n.p.	5,461	84,297
1981	1,371	67,765	2,791	n.p.	n.p.	4,256	79,203
<i>1980-81 —</i>							
July	133	2,652	174	n.p.	n.p.	151	3,462
August	154	5,219	189	n.p.	n.p.	177	6,054
September	127	8,811	225	n.p.	n.p.	489	10,089
October	112	12,277	198	n.p.	n.p.	869	13,951
November	100	10,451	245	n.p.	n.p.	746	11,901
December	142	9,498	338	n.p.	n.p.	747	10,946
January	129	6,344	384	n.p.	n.p.	437	7,428
February	114	4,452	290	n.p.	n.p.	225	5,177
March	141	3,689	304	n.p.	n.p.	177	4,486
April	83	2,794	186	n.p.	n.p.	97	3,296
May	60	1,093	125	n.p.	n.p.	90	1,515
June	77	484	133	n.p.	n.p.	50	899

(a) Includes the butter equivalent of butter oil production.

TABLE 5. FACTORY PRODUCTION OF NON-PROCESSED CHEESE(a)
(Tonnes green weight)

	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
<i>Year ended 30 June</i>							
1979	11,869	80,746	12,562	16,806	2,340	17,493	141,815
1980	11,766	94,829	11,328	18,000	2,866	15,431	154,221
1981	11,292	80,490	10,765	16,948	3,642	13,907	136,744
<i>1980-81—</i>							
July	759	2,519	666	1,536	428	130	6,038
August	963	7,351	813	1,877	455	1,054	12,513
September	1,111	11,267	1,022	2,138	522	1,734	17,792
October	1,194	12,854	850	2,541	485	2,250	20,174
November	1,024	11,977	841	2,108	456	2,398	18,804
December	1,054	10,960	1,082	1,784	391	2,190	17,455
January	1,018	8,786	1,070	1,208	145	1,587	13,815
February	1,051	6,472	1,067	675	20	962	10,249
March	1,121	3,903	1,027	414	29	724	7,218
April	851	2,236	808	705	35	374	5,008
May	549	1,295	827	881	n.p.	n.p.	3,966
June	598	871	693	1,081	n.p.	n.p.	3,713

(a) Includes producers not within the equalisation scheme.

TABLE 6. FACTORY PRODUCTION OF NON-PROCESSED CHEESE(a) BY VARIETY, AUSTRALIA
(Tonnes green weight)

Variety	Year ended 30 June		
	1979	1980	1981
<i>Very hard—</i>			
Romano, Kassei, Montasio, Sardo, Malling	1,378	1,723	1,559
Other very hard varieties	1,963	1,997	2,017
<i>Total very hard</i>	<i>3,341</i>	<i>3,720</i>	<i>3,576</i>
<i>Hard and semi-hard—</i>			
Cheddar	104,118	113,460	100,642
Gouda	11,231	8,447	5,521
Edam, Samsoc, Swiss, Taffel, Tambo, Danbo, Leiden	3,907	3,492	4,090
Other hard and semi-hard varieties	2,803	5,212	3,523
<i>Total hard and semi-hard</i>	<i>122,059</i>	<i>130,611</i>	<i>113,776</i>
<i>Soft—</i>			
Feta	595	871	784
Gbeina, Strachino, Casalingo, Pastorello, Formaggio Fresco	(b)	(b)	(b)
Mozzarella, Scamorza, Treccia, Burrino, 'large' cheese,			
Pizza Cacio	5,041	5,714	5,671
Other soft varieties	775	1,157	1,481
<i>Total soft</i>	<i>6,410</i>	<i>7,742</i>	<i>7,936</i>
<i>Fresh—</i>			
Ricotta	610	691	866
Cottage	4,117	4,566	5,071
Other fresh varieties	5,277	6,889	5,519
<i>Total fresh</i>	<i>10,004</i>	<i>12,146</i>	<i>11,456</i>
Total all varieties	141,815	154,221	136,744

(a) Includes producers not within the equalisation scheme. (b) Included in 'Other soft varieties'.

TABLE 7. FACTORY PRODUCTION OF PROCESSED MILK PRODUCTS(a), AUSTRALIA
(Tonnes)

	Condensed, concentrated and evaporated milk			Infants' invalid and health beverages		Milk in powdered form								
						Skim				Buttermilk or mixed skim and buttermilk				
	Full cream		Casein (incl. casein co-precip- itates)	Infants' milk powder	Other (incl. malted milk)	Full cream (spray and roller)	Without added ingredients		With added ingredients					
	Sweet- ened(b)	Unsweet- ened					Skim	Spray	Roller	Bakers powder	Other	Spray	Roller	
Year ended 30 June														
1979	15 488	39 110	27 506	17 221	13 032	10 760	77 451	66 130	3 685	1 943	2 868	7 189	1 071	
1980	17 942	40 916	24 510	15 137	14 172	11 947	79 853	49 694	1 846	1 596	2 759	5 752	485	
1981	15 106	37 852	18 804	13 635	16 917	12 367	65 248	50 397	1 551	1 151	1 215	5 992	618	
1980-81—														
July	205	831	1 343	395	1 566	1 037	2 618	2 879	73	n.p.	186	n.p.	n.p.	
August	1 157	2 201	1 657	925	1 642	931	5 322	3 808	120	n.p.	n.p.	n.p.	n.p.	
September	2 462	3 868	1 706	2 023	1 623	1 258	6 372	5 731	331	n.p.	n.p.	634	n.p.	
October	1 523	6 699	2 006	2 982	1 139	965	8 875	9 777	303	n.p.	n.p.	906	n.p.	
November	1 768	5 589	1 787	2 619	1 218	1 050	11 377	7 969	n.p.	n.p.	n.p.	862	n.p.	
December	1 444	3 862	1 888	1 451	1 456	1 167	10 272	6 384	n.p.	219	18	879	28	
January	n.p.	4 375	1 638	1 308	1 558	835	7 623	4 639	90	n.p.	n.p.	652	n.p.	
February	n.p.	3 609	2 016	836	2 089	979	4 531	2 154	59	n.p.	n.p.	385	n.p.	
March	n.p.	3 184	1 773	634	2 324	1 127	3 617	2 449	36	n.p.	n.p.	288	7	
April	n.p.	1 857	1 390	334	n.p.	920	2 507	2 702	8	n.p.	n.p.	220	n.p.	
May	n.p.	1 040	578	91	n.p.	886	811	1 069	n.p.	n.p.	n.p.	n.p.	n.p.	
June	269	739	1 019	37	887	1 212	1 324	837	n.p.	n.p.	n.p.	n.p.	n.p.	

(a) All annual figures are derived from the recorded monthly production and are subject to revision. (b) Includes coffee and milk.

IV. STOCKS OF BUTTER AND CHEESE

TABLE 8. STOCKS OF BUTTER, AUSTRALIA(a)

(Source: Australian Dairy Corporation)
(Tonnes)

At end of month	1978-79	1979-80	1980-81
July	17,049	6,305	3,890
August	17,236	6,859	4,246
September	21,938	10,941	7,859
October	32,146	18,183	13,753
November	38,279	25,275	19,428
December	35,908	27,645	21,467
January	37,755	29,015	23,322
February	36,516	27,738	22,981
March	32,447	23,669	21,763
April	28,028	18,936	20,213
May	19,864	13,287	16,088
June	12,533	6,192	11,326

(a) Includes butter oil, etc. commercial butter equivalent basis, as reported by manufacturers.

TABLE 9. STOCKS OF CHEESE, AUSTRALIA(a)

(Source: Australian Dairy Corporation)
(Tonnes)

At end of month	1978-79	1979-80	1980-81
July	28,477	37,991	44,264
August	30,659	39,469	46,764
September	36,347	44,221	52,333
October	41,935	50,794	57,770
November	47,079	56,504	61,842
December	52,784	61,299	65,671
January	55,881	65,761	68,165
February	56,625	66,726	68,555
March	54,417	67,903	64,565
April	50,429	63,557	59,600
May	45,215	57,055	53,315
June	41,031	48,931	47,292

(a) Stocks of cheese on which the levy is payable. Stocks include product held by manufacturers and processors. This includes AIC export stocks being held by manufacturers but excludes stocks held by agents, wholesalers and retailers which are not known.

V. OVERSEAS TRADE STATISTICS

TABLE 10. IMPORTS OF CHEESE BY VARIETY, AUSTRALIA
(Tonnes)

Variety	Year ended 30 June		
	1979	1980	1981p
Processed(a) -			
cheddar	627	529	702
other (incl. gruyere)	2,110	2,516	2,544
Blue vein	471	434	478
Cheddar	776	716	690
Edam	1,009	873	1,145
Gouda	882	889	1,079
Parmesan (incl. parmigiano and			
reggiano)	62	88	128
Provolone	293	289	393
Camembert	343	441	673
Emmentaler	185	148	121
Feta	944	1,033	1,474
Jarlsberg	667	962	(b)
Kasseri	166	270	218
Other (incl. pecorino and curd)	3,573	2,794	3,649
Total	12,109	11,981	13,294

(a) Includes pastes and spreads. (b) Not separately recorded. Included in 'Other'.

TABLE 11. IMPORTS OF CHEESE BY COUNTRY OF ORIGIN, AUSTRALIA
(Tonnes)

Country of origin	Year ended 30 June		
	1979	1980	1981p
Austria	125	110	116
Bulgaria	597	507	886
Denmark	1,388	1,502	1,506
France	353	307	425
Germany, Federal Republic of	613	658	843
Greece	366	516	769
Italy	702	722	905
Netherlands	839	903	1,033
New Zealand	4,868	4,230	4,919
Norway	821	1,066	803
Romania	327	470	386
Switzerland	169	149	125
Other countries	942	840	578
Total	12,109	11,981	13,294

TABLE 12. EXPORTS OF BUTTER (a) BY COUNTRY OF CONSIGNMENT, AUSTRALIA
(Tonnes)

Country of consignment	Year ended 30 June		
	1979	1980	1981p
Hong Kong	2,476	2,261	1,854
Indonesia	3,308	530	607
Japan	454	32	37
Malaysia	2,849	1,354	1,143
Mauritius	534	709	444
New Caledonia	327	314	228
Oman	2,660	1,647	467
Papua New Guinea	860	841	387
Saudi Arabia	4,840	4,480	2,538
Singapore	2,669	2,164	2,686
Sri Lanka	876	879	324
Taiwan	670	856	688
Thailand	1,990	339	57
United Arab Emirates	1,069	1,590	859
Yemen, Arab Republic	1,892	2,567	1,339
Yemen, Dem. Rep. of	809	376	333
Other countries	6,393	2,183	997
Total	34,466	23,122	14,988

(a) Australian produce only, excludes re-exports.

TABLE 13. EXPORTS OF NON-PROCESSED CHEESE(a) BY COUNTRY OF CONSIGNMENT, AUSTRALIA (Tonnes)

Country of consignment	Year ended 30 June		
	1979	1980	1981p
Canada	251	58	115
Guyana	403	1,424	272
Japan (b)	24,291	28,555	19,766
Kuwait	36	71	72
Malta	526	538	665
Netherlands	—	—	500
Oman	9	11	15
Papua New Guinea	138	174	140
Philippines	1,930	1,604	2,078
Saudi Arabia	191	13	21
U.K.	—	616	3,165
United States of America	5,212	5,402	3,451
Other countries	963	1,822	1,164
Total	34,150	40,288	31,424

(a) Australian produce only; excludes ships' stores. (b) Includes Okinawa.

TABLE 14. EXPORTS OF PROCESSED CHEESE(a) BY COUNTRY OF CONSIGNMENT, AUSTRALIA (Tonnes)

Country of consignment	Year ended 30 June		
	1979	1980	1981p
Bahrain	570	722	639
Indonesia	266	518	609
Iraq	1,838	1,856	2,041
Japan (b)	187	211	242
Kuwait	1,355	954	1,349
Mauritius	228	423	306
Oman	184	244	197
Philippines	1,102	519	936
Saudi Arabia	8,528	10,537	11,404
Singapore	320	404	482
United Arab Emirates	786	1,768	1,457
Other countries	1,877	2,682	3,033
Total	17,241	20,840	22,695

(a) Australian produce only; includes cheese pastes and cheese spreads; excludes ships' stores. (b) Includes Okinawa.

TABLE 15. EXPORTS OF CHEESE(a) BY VARIETY, AUSTRALIA (Tonnes)

Year ended 30 June	Variety					
	Processed(b)	Cheddar and epicure cheddar	'incl. Parmigiano and Reggiano	Gouda	Other	Total
1979	17,241	19,383	55	8,505	6,206	51,391
1980	20,840	25,204	100	6,139	8,844	61,127
1981p	22,695	19,395	123	4,941	6,965	54,119

(a) Excludes ship's stores. (b) Includes pastes and spreads.

TABLE 16. EXPORTS OF DAIRY PRODUCTS, AUSTRALIA (Tonnes)

Year ended 30 June	Processed milk products									
	Cheese			Preserved, condensed, concentrated, etc.		Milk		Dried or in powdered form		
	Butter	Non- processed	processed	Sweetened	Un- sweetened	Ice cream mix	cream baby foods	Casein(a)	Full cream	Skim
1979	34 466	34 150	17 241	5 537	5 241	918	9 767	11 605	44 204	18 441
1980	23 122	40 288	20 840	7 076	6 890	1 259	12 588	10 723	64 578	12 629
1981p	14 988	31 424	22 695	6 969	7 080	1 110	13 601	10 521	44 501	5 853

(a) Casein includes hydrochloric, lactic and rennet.

VI. APPARENT CONSUMPTION OF DAIRY PRODUCTS AND MARGARINE

TABLE 17. APPARENT CONSUMPTION OF DAIRY PRODUCTS AND MARGARINE, AUSTRALIA, 1979 TO 1981

	Available for consumption Year ended 30 June			Per capita consumption(a) Year ended 30 June		
	1979	1980	1981p	1979	1980	1981p
	— million litres —			— litres —		
Market milk (fluid whole)	1,490.2	1,512.4	1,567.3	104.0	104.2	106.4
	— '000 tonnes —			— Kilograms —		
Butter	64.9	66.4	63.7	4.5	4.6	4.3
Cheese (natural equivalent weight)	90.8	100.3	100.1	6.3	6.9	6.8
Condensed, concentrated and evaporated milk						
Full cream sweetened	10.0	9.6	n.y.a.	0.7	0.7	n.y.a.
Full cream unsweetened	36.3	32.1	n.y.a.	2.5	2.2	n.y.a.
Skim	22.5	19.0	n.y.a.	1.6	1.3	n.y.a.
Powdered milk—						
Full cream	13.1	13.1	n.y.a.	0.9	0.9	n.y.a.
Skim (incl. buttermilk and mixed skim and buttermilk)	46.9	54.1	n.y.a.	3.3	3.7	n.y.a.
Infants' and invalids' food	15.1	16.0	n.y.a.	1.1	1.1	n.y.a.
Margarine—						
Table	84.9	94.0	98.6	5.9	6.5	6.7
Other	42.0	35.7	36.8	2.9	2.5	2.5

(a) Apparent per capita consumption has been calculated using the following mean population figures: 1978-79 14,333,241; 1979-80 14,516,690; 1980-81 14,726,800 (p.a.) 31.12.80).

VII. GROSS VALUE OF WHOLE MILK

TABLE 18. GROSS VALUE OF WHOLE MILK USED (\$'000)

Year ended 30 June	N.S.W.	Vic.	Qld.	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
LIQUID WHOLE MILK USED FOR MANUFACTURING									
1979	23,637	195,526	23,289	16,370	4,888	33,596	—	—	297,306
1980	28,231	205,902	21,170	19,373	4,191	31,110	—	—	309,977
1981p	32,000	324,000	28,000	31,000	10,000	25,000	—	—	450,000
LIQUID WHOLE MILK USED FOR HUMAN CONSUMPTION									
1979	130,136	85,629	55,249	21,038	31,661	10,416	72	n.a.	(a)334,201
1980	137,138	102,085	58,782	22,968	37,675	11,022	86	n.a.	(a)369,756
1981p	151,577	92,000	58,240	26,902	41,797	11,676	81	n.a.	(a)382,273
TOTAL WHOLE MILK PRODUCTION									
1979	153,773	281,155	78,538	37,407	36,549	44,012	72	n.a.	(a)631,506
1980	165,369	307,987	79,952	42,341	41,865	42,132	86	n.a.	(a)679,733
1981p	183,577	416,000	86,240	57,902	51,797	36,676	81	n.a.	(a)832,273

(a) Incomplete, excludes the Australian Capital Territory.

VIII. STRUCTURAL STATISTICS

Tables 19 and 20 contain structural data for economic units predominantly engaged in the milk cattle industry.

Australian Standard Industrial Classification (ASIC)

2. The Australian Standard Industrial Classification (ASIC) defines the industries of the economy for statistical purposes, thus permitting the scope of the different economic statistical collections to be specified without gaps or overlapping between them. It also sets out standard rules for identifying the economic units referred to in these tables (i.e. enterprises) and for coding them to the industries of the Classification. The 1978 edition of ASIC subdivision 01, Agriculture, has been used for tables 19 and 20 covering agricultural industries.

Definitions

3. An enterprise is defined broadly as the unit comprising all operations in Australia of a single operating legal entity. The term *legal entity* is used to cover a sole operator, partnership, company, trust, co-operative society or estate in the private sector, or a department, local government authority or statutory authority in the government sector. An *agricultural enterprise* is an enterprise which is mainly engaged in agricultural activities. For the agricultural sector a *multi-State enterprise* is an enterprise which undertakes agricultural activities in more than one State or Territory. An *establishment* covers all operations carried out by one enterprise at a single physical location.

Structural statistics

4. Each agricultural enterprise is classified each year to an industry of ASIC Subdivision 01, Agriculture, by applying unit prices to each agricultural activity undertaken by the enterprise and by then assessing the predominant activity according to the estimated value derived. An enterprise is not tabulated if the estimated value derived is less than \$1,500. A more detailed explanation of the units involved in agriculture and the determination of the industry of such economic units is given in the publication *Agricultural Sector, Structure of Operating Units, Australia, 1979-80* (7102.0).

Financial statistics

5. The 1977-78 financial statistics of agricultural enterprises engaged predominantly in the milk cattle industry were published in the 1978-79 issue of this publication. The statistics were derived from the triennial Agricultural Finance Survey. The 1980-81 Agricultural Finance Survey is currently being conducted and preliminary data will be available by March 1982. Detailed information and an explanation of the framework of the Survey is given in the publication *Agricultural Sector, Financial Statistics, Australia, 1977-78* (7507.0).

TABLE 19. NUMBER OF AGRICULTURAL ENTERPRISES CLASSIFIED TO ASIC INDUSTRY CLASS 0187 — MILK CATTLE

	N.S.W.	Vic.	Qld.	S.A.	W.A.	Tas.	Abstr. (a)
0187 Milk cattle							
1977-78	4,158	11,851	3,597	1,527	663	1,517	23,334
1978-79	3,779	11,347	3,144	1,455	604	1,480	21,823
1979-80	3,506	10,573	3,076	1,381	586	1,367	20,501
01 Total agriculture(b)							
1977-78	48,806	46,626	32,185	19,236	15,756	5,793	169,143
1978-79	48,562	47,536	32,867	19,391	16,065	5,847	170,989
1979-80	51,788	45,898	32,881	19,692	15,718	5,710	172,402

(a) Includes enterprises located in the Northern Territory and the Australian Capital Territory as well as multi-State enterprises. (b) Includes all classes in ASIC subdivision 01, Agriculture.

TABLE 20. LEGAL STATUS OF AGRICULTURAL ENTERPRISES CLASSIFIED TO ASIC INDUSTRY CLASS 0187 — MILK CATTLE, AUSTRALIA (Number)

	Legal Status					Other (a)	Total enterprises
	Sole operator	Family partnership	Other partnership	Private incorporated companies	Public incorporated companies		
0187 Milk cattle							
1977-78	7,898	14,139	395	438	19	445	23,334
1978-79	6,643	13,894	418	470	18	380	21,823
1979-80	5,968	13,322	388	460	11	352	20,501
01 Total agriculture(b)							
1977-78	55,672	99,169	4,083	6,422	176	3,621	169,143
1978-79	53,407	101,797	4,861	7,187	189	3,548	170,989
1979-80	53,021	102,687	5,369	7,706	188	3,431	172,402

(a) Includes co-operative societies, trusts and estates. (b) Includes all classes in ASIC subdivision 01, Agriculture.

The following table, compiled from the Census of Manufacturing Establishments, shows a summary of the operations of establishments classified to the ASIC industry group Milk Products (comprising ASIC industry

classes; 2121 — Liquid Milk and Cream, 2122 — Butter, 2123 — Cheese, 2124 — Ice Cream and Frozen Confections and 2125 — Milk Products not elsewhere classified).

TABLE 21. SUMMARY OF OPERATIONS OF MANUFACTURING ESTABLISHMENTS(a) CLASSIFIED TO ASIC INDUSTRY GROUP 212-MILK PRODUCTS

	Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.(b)
	— number —							
Number of establishments operating at 30 June	1978	79	115	42	27	16	15	296
	1979	75	111	41	23	16	15	283
	1980	75	107	40	23	17	16	280
Employment (incl. working proprietors)								
Average over whole year—								
Males	1977-78	4,351	7,036	1,709	1,087	n.p.	657	15,736
	1978-79	4,161	7,265	1,877	929	n.p.	652	15,691
	1979-80	4,020	7,073	1,725	948	n.p.	633	15,210
Females	1977-78	1,254	1,633	447	368	n.p.	171	4,217
	1978-79	1,111	1,706	473	299	n.p.	157	4,053
	1979-80	1,073	1,568	417	294	n.p.	149	3,834
Total	1977-78	5,605	8,669	2,156	1,455	n.p.	828	19,953
	1978-79	5,272	8,971	2,350	1,228	n.p.	809	19,744
	1979-80	5,093	8,641	2,142	1,242	n.p.	782	19,044
	— \$'000 —							
Wages and salaries(c)	1977-78	59,950	89,740	20,269	13,659	n.p.	6,843	203,472
	1978-79	59,032	98,932	24,363	12,413	n.p.	8,426	215,389
	1979-80	64,418	101,681	24,388	13,560	n.p.	8,759	226,361
Turnover	1977-78	357,903	783,327	170,411	83,552	n.p.	74,561	1,562,670
	1978-79	389,369	891,481	211,694	88,329	n.p.	71,718	1,765,721
	1979-80	443,713	992,502	224,085	98,731	n.p.	82,945	1,966,394
Stocks at end of June—								
Opening	1977-78	17,738	51,465	9,817	4,773	n.p.	8,187	95,343
	1978-79	17,635	66,228	10,286	4,389	n.p.	5,933	109,147
	1979-80	19,390	81,142	13,050	6,604	n.p.	7,077	132,492
Closing	1977-78	18,987	60,418	10,057	4,956	n.p.	5,571	104,397
	1978-79	20,243	74,337	13,162	6,030	n.p.	7,269	126,271
	1979-80	21,389	91,380	12,788	8,196	n.p.	11,181	150,087
Purchases, transfers in and selected expenses	1977-78	269,761	628,104	127,885	51,463	n.p.	52,085	1,201,678
	1978-79	296,570	708,289	160,605	60,038	n.p.	54,786	1,369,825
	1979-80	335,403	778,001	172,303	70,262	n.p.	64,616	1,519,518
Value added	1977-78	89,391	164,176	42,766	32,272	n.p.	19,860	370,046
	1978-79	95,408	191,302	53,965	29,933	n.p.	18,267	413,019
	1979-80	110,308	224,738	51,521	30,061	n.p.	22,433	464,470
Fixed capital expenditure (outlay on fixed tangible assets less disposals)	1977-78	7,757	18,873	4,720	2,603	n.p.	3,509	38,899
	1978-79	10,090	28,243	6,618	4,565	n.p.	2,272	53,976
	1979-80	6,042	34,252	8,350	2,386	n.p.	1,177	54,095

(a) Details relate only to manufacturing establishments owned by multi-establishment enterprises and single establishment manufacturing enterprises with four or more persons employed. (b) Includes the Northern Territory and the Australian Capital Territory. (c) Includes the drawings of working proprietors.

IX. ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE HERDS

TABLE 22. NUMBER OF ESTABLISHMENTS WITH AGRICULTURAL ACTIVITY CLASSIFIED ACCORDING TO AREA OF ESTABLISHMENT AND SIZE OF MILK CATTLE HERD, AUSTRALIA(a), AT 31 MARCH 1978 TO 1980

	Size of milk cattle herd (number)															Establish- ments with milk cattle	Establish- ments with no milk cattle	Total number of establish- ments	
	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-124	125-149	150-174	175-199	200-249	250 and over			
1978	4 039	1 072	942	1 022	1 152	1 330	1 505	1 644	1 817	1 794	4 284	3 203	2 244	1 334	1 345	1 129	29 856	152 269	182 125
1979	3 759	991	883	938	984	1 222	1 335	1 451	1 696	1 685	3 982	3 035	2 106	1 288	1 258	1 135	27 748	156 968	184 716
1980—																			
N.S.W.	591	31	59	112	128	177	252	260	290	324	654	437	285	207	214	202	4 223	52 565	56 788
Vic.	1 442	383	276	305	307	364	409	488	638	702	2 048	1 805	1 364	869	821	667	12 888	37 073	49 961
Qld	494	66	137	157	209	234	273	277	290	256	547	350	235	121	135	111	3 892	32 093	35 985
S.A.	593	205	116	109	125	103	132	120	117	123	221	111	95	48	51	46	2 315	20 862	23 177
W.A.	192	15	21	14	18	11	10	17	13	26	69	90	80	56	115	132	879	17 516	18 395
Tas.	281	93	82	110	82	115	103	85	125	116	198	154	100	62	59	53	1 818	4 362	6 180
Area of establishment (Hectares)																			
0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	(b)1 924	(b)1 924	
>0 4	43	9	5	—	—	—	1	—	—	—	—	—	—	—	—	—	58	6 189	6 247
5 9	109	38	13	9	—	1	1	—	1	—	—	—	—	—	—	—	172	5 712	5 884
10 19	197	103	63	56	36	37	16	11	7	3	2	—	—	—	—	—	570	8 859	9 390
20 29	189	74	87	89	93	71	48	46	31	36	42	10	—	2	1	—	819	6 115	6 934
30 39	137	63	70	84	105	111	87	80	86	66	130	38	13	3	2	1	1 076	5 521	6 597
40 49	157	54	65	86	105	119	158	126	172	143	288	172	33	8	6	4	1 690	5 926	7 622
50 74	257	106	91	125	154	209	260	306	339	324	772	549	272	88	38	8	3 808	10 032	13 930
75 99	162	42	55	99	103	133	162	181	241	255	641	562	385	183	132	25	3 361	7 298	10 659
100 124	153	39	40	49	52	74	96	119	147	182	478	418	324	234	191	57	2 653	5 959	8 612
125 149	118	25	34	53	53	70	98	90	111	110	331	299	272	218	190	87	2 159	5 536	7 695
150 199	186	40	43	42	39	63	89	106	122	170	410	346	314	219	274	193	2 656	7 995	10 651
200 249	182	31	15	33	40	41	63	63	77	89	205	196	201	167	206	183	1 792	7 514	9 306
250 299	168	23	19	20	18	25	25	36	45	52	145	112	103	76	102	146	1 115	6 601	7 716
300 399	274	39	24	21	26	23	26	27	30	42	137	106	109	65	112	172	1 228	9 878	11 106
400 499	213	21	12	13	16	12	21	24	31	32	53	51	53	35	58	104	749	8 574	9 323
500 749	318	33	24	15	16	10	17	22	22	18	73	54	47	30	48	131	887	14 116	15 003
750 999	164	12	8	3	5	5	4	4	5	11	11	18	12	14	17	45	338	8 576	8 914
1 000 1 999	303	32	16	4	6	—	5	5	3	9	16	14	16	8	15	40	492	15 636	16 128
2 000 2 999	108	6	2	4	—	—	1	2	—	4	4	2	3	1	2	7	146	5 395	5 541
3 000 3 999	33	—	1	1	—	—	1	—	—	—	1	—	1	—	—	2	40	2 453	2 493
4 000 4 999	17	3	1	1	1	—	—	—	1	—	—	—	1	2	1	—	28	1 397	1 425
5 000 9 999	53	1	3	2	1	—	—	—	1	1	2	—	—	1	—	5	70	2 745	2 815
10 000 19 999	26	—	—	—	1	—	—	—	1	—	—	—	—	—	—	1	29	2 003	2 032
20 000 29 999	13	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	14	868	882
30 000 49 999	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	736	744
50 000 and over	9	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	10	1 355	1 365
Total number of establishments	3 597	794	691	809	870	1 004	1 179	1 248	1 473	1 547	3 737	2 947	2 160	1 363	1 395	1 211	26 025	164 913	190 938

(a) Detailed State information is available on request. (b) Establishments engaged in beekeeping possessing no land