

STATISTICAL BULLETIN:

THE

DAIRYING INDUSTRY

VOL. 33 No. 14

SIX MONTHS ENDED DECEMBER 1970



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA, AUSTRALIA

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA, AUSTRALIA
STATISTICAL BULLETIN : THE DAIRYING INDUSTRY, AUSTRALIA
SIX MONTHS ENDED DECEMBER 1970 ; VOLUME 33 - I.C. 14

<u>Table</u>	<u>CONTENTS</u>	<u>Page</u>
	Foreword	3
	<u>I. DAIRY BULLS, AND COWS AND HEIFERS FOR MILK PRODUCTION</u>	
1.	Dairy breed bulls, and cows and heifers used or intended for production of milk or cream : Australia, 31 March 1966 and 1968 and States, 31 March 1969 to 1970	4
2.	Holdings with milk cattle : classification according to size of herd - Australia, 31 March 1966, 1969 and 1970	5
	<u>II. WHOLE MILK</u>	
3.	Production and utilisation of whole milk : States, July to December 1969 and 1970	5
4.	Production and utilisation of whole milk : Australia, 1965-66 to 1969-70 and July to December 1969 to 1970	6
5.	Production of whole milk : States, 1965-66 to 1969-70 and July to December 1969 to 1970	7
6.	Average annual production of whole milk per cow : States, 1965-66 to 1969-70	8
	Production of whole milk : specified countries	9
7.	Milking machines on rural holdings : States, 31 March 1966 to 1970	9
	<u>III. BUTTER</u>	
8.	Factory production of butter : States, 1965-66 to 1969-70 and July to December 1969 to 1970	10
9.	Production and utilisation of butter : Australia, 1965-66 to 1969-70 and July to December 1969 and 1970	12
10.	Bulk butter graded for export : Australia, 1965-66 to 1969-70 and July to December 1969 and 1970	12
11.	Exports of butter : Australia, 1966-67 to 1969-70 and July to December 1969 and 1970	13
12.	Stocks of butter held in main cold stores : Australia, 1966-67 to 1969-70 and July to December 1970	14
	<u>IV. CHEESE</u>	
13.	Factory production of cheese : States, 1965-66 to 1969-70 and July to December 1969 to 1970	14
	Factory production of cheese by varieties : Australia	16
14.	Production and utilisation of cheese : Australia, 1965-66 to 1969-70 and July to December 1969 and 1970	16
15.	Bulk cheese graded for export : Australia, 1965-66 to 1969-70 and July to December 1969 to 1970	16
16.	Exports of cheese : Australia, 1966-67 to 1969-70 and July to December 1969 and 1970	17
17.	Exports of cheese by varieties : Australia, 1966-67 to 1969-70 and July to December 1969 and 1970	17
18.	Imports of cheese : Australia, 1966-67 to 1969-70 and July to December 1969 and 1970	18

CONTENTS - continued

<u>Table</u>		<u>Page</u>
	<u>IV. CHEESE - continued</u>	
19.	Imports of cheese by varieties : Australia, 1966-67 to 1969-70 and July to December 1969 and 1970	18
20.	Stocks of cheese held in main cold stores : Australia, 1966-67 to 1969-70 and July to December 1970	18
	<u>V. PROCESSED MILK PRODUCTS</u>	
21.	Production of processed milk products : Australia, 1965-66 to 1969-70 and July to December 1969 to 1970	19
22.	Production and utilisation of processed milk products : Australia, 1965-66 to 1969-70	21
23.	Exports of processed milk products : Australia, 1965-66 to 1969-70 and July to December 1969 and 1970	21
	<u>VI. FACTORIES PRODUCING BUTTER, CHEESE AND PROCESSED MILK PRODUCTS</u>	
	Factories producing butter, cheese and processed milk products : Australia	22
	<u>VII. MARKETING ARRANGEMENTS AND ASSISTANCE TO THE DAIRYING INDUSTRY</u>	
	Butter and Cheese Equalisation Scheme	23
	Casein Equalisation Plan	23
	Wholesale prices of butter and cheddar cheese	23
	Overseas marketing	23
	Commonwealth bounties and stabilisation plans	23
24.	Butter and cheese : rates realised on sales, average equalisation rates and rates of Commonwealth bounty under Dairying Industry Acts : Australia, 1965-66 to 1970-71	25
25.	Average overall returns on commercial butter : Australia, 1965-66 to 1970-71	25
	Commonwealth Extension Services Grant	25
	Dairy industry research and sales promotion	25
	<u>VIII. APPENDIX</u>	
26.	Holdings classified according to size of milk cattle herd : number of holdings, States and Australia, 31 March 1970	27
27.	Holdings classified according to size of milk cattle herd : number of holdings, States, 31 March 1969 and 1970	31
	<u>GRAPHS</u>	
	Whole milk - Production : States, six months ended December 1970	8
	- Utilisation : Australia, six months ended December 1970	8
	Butter - Factory production : States, six months ended December 1970	11
	Cheese - Factory production : States, six months ended December 1970	15

FOREWORD

This issue includes detailed statistics for the six months ended December 1970. Supplementary issues of this bulletin are published each month, but relate mainly to monthly particulars of the production and utilisation of whole milk and factory production of butter, cheese and processed milk products.

While most of the statistical information contained in this bulletin has been collected and compiled in this Bureau, some data have also been obtained from the Department of Primary Industry, the Commonwealth Dairy Produce Equalisation Committee Ltd, and the Australian Dairy Produce Board, relative to Australian and overseas prices, bounties, and stocks of dairy produce held in main cold stores. To each of these authorities thanks are due for its valuable assistance and co-operation.

Table 4 includes revised seasonally adjusted figures for whole milk produced. In the seasonal adjustment, account has been taken of both normal seasonal factors and "trading-day" effects. Details of the methods used in seasonally adjusting this and other series are given in "Seasonally Adjusted Indicators, 1970" (Reference No. 1.10) issued on 29 June 1970.

SYMBOLS AND USAGES

The following symbols, where shown in columns of figures or elsewhere in tables mean -

- n.a. Not available.
- .. Nil or less than half the final digit shown, or not applicable.
- p Preliminary - figure or series subject to revision.

Any discrepancies between totals and sums of components in tables are due to rounding.

I. DAIRY BULLS, AND COWS AND HEIFERS FOR MILK PRODUCTION
TABLE 1. - DAIRY BREED BULLS, AND COWS AND HEIFERS USED OR INTENDED FOR
PRODUCTION OF MILK OR CREAM
 (Number)

31 March -	Bulls, dairy breed (a)	Cows and heifers used or intended for production of milk or cream for sale			House cows and heifers (b)
		Cows (in milk and dry)	Heifers		
			1 year and over (c)	Under 1 year	
1966	90,009	2,908,372	822,887	681,033	185,589
1967	87,235	2,880,681	795,771	671,957	179,675
1968	81,512	2,793,650	754,587	689,038	169,384
1969 -					
New South Wales	15,229	604,256	150,920	117,705	84,771
Victoria	37,103	1,209,218	358,706	317,325	25,172
Queensland	12,721	497,294	121,918	88,098	34,763
South Australia	5,536	137,756	47,274	34,188	6,802
Western Australia	2,739	97,122	46,369	27,709	7,533
Tasmania	3,221	152,894	43,257	38,987	5,042
Northern Territory	70	624	141	77	125
Aust. Cap. Territory	32	1,471	196	201	340
AUSTRALIA	76,651	2,700,635	768,781	624,290	164,548
1970 -					
New South Wales	13,523	570,806	143,214	108,860	81,803
Victoria	33,669	1,246,175	321,290	334,991	24,803
Queensland	11,367	459,797	122,300	78,487	31,735
South Australia	5,375	142,419	43,005	37,315	6,303
Western Australia	2,666	101,094	36,530	33,202	6,842
Tasmania	2,833	155,040	37,919	39,578	4,646
Northern Territory	71	323	508	257	155
Aust. Cap. Territory	32	1,004	185	187	322
AUSTRALIA	69,536	2,676,658	704,951	632,877	156,609

(a) Used or intended for service; excludes bull calves (under 1 year). (b) Kept primarily for rural holdings' own milk supply. (c) Springing (within 3 months of calving) and other.

Holdings with milk cattle - classification according to size of herd - Special tabulations relating to size and type of rural holdings have been prepared for the year 1968-69. A classification of holdings according to size of milk cattle herd showing the number of holdings in each size group for all States and Australia are shown in the appendix at the end of this bulletin. Similar tables for the year 1968-69 are shown in Volume 32, No. 14 of this bulletin issued on 8 June 1970.

Information for 1965-66 has been published in greater detail in a series of bulletins, one for each State and one for Australia, entitled "Classification of Rural Holdings by Size and Type of Activity" (Reference No. 10.28). Particulars for 1968-69 will be published in similar detail at a later date.

An abbreviated summary of the number of holdings classified according to size of milk cattle herd at 31 March 1966, 1969 and 1970 is shown in the table below.

TABLE 2. - NUMBER OF HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE HERD, AUSTRALIA, 31 MARCH 1966, 1969 AND 1970

31 March -	Size of milk cattle herd (numbers)					Total holdings with milk cattle
	Under 10	10-29	30-59	60-99	100 and over	
1966	17,220	10,963	15,645	19,000	14,249	77,077
1969	14,851	7,961	11,963	15,078	14,335	64,188
1970	13,210	6,754	9,881	14,020	15,671	59,536

II. WHOLE MILK

TABLE 3. - PRODUCTION AND UTILISATION OF WHOLE MILK ('000 gal)

State	Quantity of whole milk used for -				Total whole milk
	Factory butter	Factory cheese	Processed milk products (a)	Other purposes (b)	
Six months ended December 1969p					
New South Wales	78,793	9,681	14,688	65,309	168,471
Victoria	422,396	41,760	35,979	54,845	554,980
Queensland	53,002	11,483	(c)	(c)	99,696
South Australia	20,754	26,575	..	16,416	63,745
Western Australia	20,811	2,678	405	13,037	36,931
Tasmania	46,720	7,858	(c)	(c)	64,335
Aust. Cap. Terr.	..	..	..	518	518
AUSTRALIA (d)	642,476	100,035	58,579	187,636	988,726
Six months ended December 1970p					
New South Wales	55,590	8,491	14,204	67,546	145,831
Victoria	417,594	46,699	61,233	57,009	582,535
Queensland	43,391	9,779	(c)	(c)	88,202
South Australia	18,219	29,084	..	16,573	63,876
Western Australia	18,367	3,075	403	13,510	35,355
Tasmania	41,511	7,431	(c)	(c)	56,017
Aust. Cap. Terr.	..	..	..	373	373
AUSTRALIA (d)	594,672	104,559	81,814	193,193	974,237

(a) Quantities of milk used to produce two or more products (for example, initially as full cream milk and subsequently as skim milk) are counted once only. (b) Principally fluid milk for domestic purposes. Includes milk used for farm production of butter and cheese. (c) Not available for publication. (d) Includes estimates of production in the Northern Territory.

TABLE 4. - PRODUCTION AND UTILISATION OF WHOLE MILK : AUSTRALIA

Period	Quantity of whole milk used for -				Total whole milk	
	Factory butter	Factory cheese	Processed milk products(a)	Other purposes (b)	Original	Seasonally adjusted (c)
	- '000 gal -					
1965-66	949,270	126,575	93,189	352,979	1,522,013	..
1966-67	1,011,000	146,547	94,046	353,132	1,604,725	..
1967-68	892,898	149,444	93,498	361,644	1,497,484	..
1968-69	908,565	158,286	98,945	364,801	1,530,597	..
1969-70p -						
July	47,086	9,977	6,032	31,306	94,401	136,300
August	81,897	14,806	9,198	31,059	136,960	138,400
September	115,049	17,865	10,302	30,827	174,043	136,100
October	137,104	20,127	11,445	31,891	200,567	133,200
November	133,822	19,108	11,180	31,175	195,285	136,600
December	127,518	18,152	10,422	31,378	187,470	135,300
<u>Total, July to December</u>	642,476	100,035	58,579	187,636	988,726	..
January	108,739	16,208	12,171	31,154	168,272	139,500
February	81,240	11,106	9,579	30,538	132,543	140,700
March	66,893	9,977	7,568	32,578	117,016	141,500
April	50,348	8,269	5,473	31,992	96,082	145,800
May	36,149	7,639	4,331	32,060	80,179	147,600
June	33,443	7,810	4,733	31,547	77,533	145,900
<u>Total, year 1969-70</u>	1,019,289	161,121	102,434	377,505	1,660,349	..
1970-71p -						
July	49,763	10,459	6,779	31,877	98,877	141,500
August	79,390	14,474	11,359	32,322	137,545	139,000
September	99,073	17,698	14,214	31,649	162,635	127,700
October	120,524	21,256	16,825	32,896	191,502	129,100
November	125,883	20,881	16,837	32,196	195,796	134,200
December	120,038	19,792	15,800	32,252	187,882	137,200
<u>Total July to December</u>	594,672	104,559	81,814	193,193	974,237	..
	- per cent -					
Percentage change, six months ended December, 1970 on 1969	-7.4	4.5	39.7	3.0	-1.5	..

(a) Quantities of milk used to produce two or more products (for example, initially as full cream milk and subsequently as skim milk) are counted once only. (b) Principally fluid milk for domestic purposes. Includes milk used for farm production of butter and cheese. (c) See foreword.

Monthly estimates of the quantity of milk used in the manufacture of factory butter and cheese have been derived from recorded monthly output of these commodities on the basis of factors ascertained from the annual factory returns. Monthly estimates of milk used for processed milk products are obtained from factories engaged in this industry. The amount of milk used for other purposes represents the quantity recorded by Milk Boards in the several States, plus an estimate of the quantity consumed in areas outside those controlled by these Boards. Milk used for other purposes also includes milk consumed on farms, quantities used by factories for manufacture of confectionery, etc., and the milk equivalent of farm production of butter and cheese.

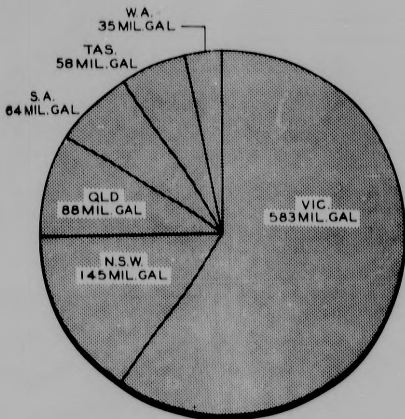
TABLE 5. - PRODUCTION OF WHOLE MILK (a)

Period	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	A.C.T.	Australia (b)
	- '000 gal -							
1965-66	300,740	750,915	221,086	98,398	61,865	87,890	1,026	1,522,013
1966-67	322,995	796,673	238,134	98,727	55,611	91,418	1,070	1,604,725
1967-68	310,056	734,203	217,202	88,822	55,411	90,793	900	1,497,484
1968-69	278,930	815,791	171,686	102,808	58,222	102,164	898	1,530,597
1969-70p -								
July	20,115	42,797	12,154	9,187	6,102	3,972	65	94,401
August	23,385	75,580	13,808	10,278	6,404	7,425	72	136,960
September	28,228	100,128	16,004	11,370	6,743	11,477	85	174,043
October	31,798	118,103	17,555	12,228	6,911	13,862	103	200,567
November	32,331	113,089	19,310	10,842	5,733	13,873	99	195,285
December	32,614	105,283	20,865	9,840	5,038	13,727	94	187,470
<u>Total, July to Dec.</u>	168,471	554,980	99,696	63,745	36,931	64,336	518	988,726
January	30,225	93,698	20,420	8,298	3,568	11,966	90	168,272
February	27,077	69,433	18,151	6,303	2,709	8,786	76	132,543
March	25,947	58,609	16,620	5,887	2,799	7,067	78	117,016
April	21,684	47,151	13,139	6,081	2,914	5,035	69	96,082
May	19,196	35,203	11,173	7,396	3,825	3,315	62	80,179
June	17,504	33,304	10,509	8,450	5,004	2,708	46	77,533
<u>Total, year 1969-70</u>	310,104	892,378	189,708	106,160	57,751	103,213	939	1,660,349
1970-71p -								
July	18,803	49,883	11,135	9,540	5,634	3,827	47	98,877
August	20,302	82,288	11,853	10,220	5,966	6,860	48	137,545
September	22,099	101,457	12,320	11,078	6,253	9,365	55	162,636
October	25,957	119,916	14,785	12,096	6,572	12,100	68	191,502
November	28,687	118,974	18,035	11,058	5,883	13,079	73	195,796
December	29,984	110,016	20,075	9,883	5,048	12,786	82	187,882
<u>Total, July to Dec.</u>	145,831	582,535	88,202	63,875	35,355	58,017	373	974,257
	- per cent -							
Percentage change, six months ended Dec., 1970 on 1969	-13.4	5.0	11.5	0.2	-4.3	-9.8	-28.0	-1.5

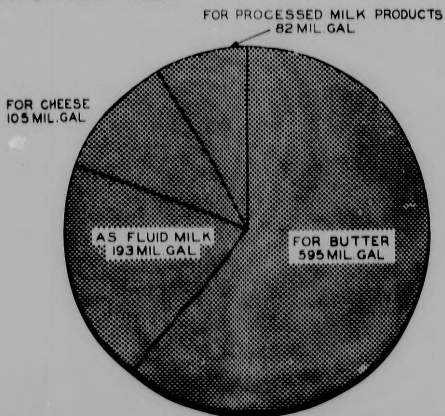
(a) For all purposes. (b) Includes estimates of production in the Northern Territory.

WHOLE MILK
PRODUCTION AND UTILISATION
SIX MONTHS ENDED DECEMBER 1970 - 974 MIL. GAL

PRODUCTION - STATES



UTILISATION - AUSTRALIA



Average annual production of whole milk per cow. The annual quantity of milk produced per cow may reach as high as 1,000 gallons, but varies greatly with breed, locality and season. The average yields per cow (shown in Table 6 for the years 1965-66 to 1969-70) are based on the number of cows which were in milk at any time during the year (the mean of the number of cows in milk and dry and house cows at 31 March of the year shown and at 31 March of the previous year is used for this purpose).

In addition to the difficulty of ascertaining with reasonable accuracy the average number of cows in milk during any year, there are many complex problems attending the collection of particulars of the total quantity of milk obtained during the same period. The average yields per cow shown in Table 6 may, however, be accepted as sufficiently reliable to show the general trend.

TABLE 6. - AVERAGE ANNUAL PRODUCTION OF WHOLE MILK PER COW
(Gallons)

Year	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	A.C.T.	Australia (a)
1965-66	378	616	316	602	508	578	524	483
1966-67	423	647	366	624	480	591	548	521
1967-68	416	596	354	590	502	581	465	497
1968-69	393	663	306	708	546	647	486	525
1969-70	462	712	371	724	543	650	598	583

(a) Includes estimates for the Northern Territory.

Production of whole milk : Specified countries. Particulars of the number of dairy cows, production per cow and milk production in ten major producing countries for 1968 and 1969 are shown in Volume 33, No. 7 of this bulletin issued on 3 November 1970.

TABLE 7. - MILKING MACHINES ON RURAL HOLDINGS : NUMBER OF UNITS (a)

31 March -	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	A.C.T.	Australia (b)
1966	41,796	105,005	42,199	18,833	9,780	15,894	94	233,625
1967	41,433	108,664	40,878	18,143	9,664	16,414	94	235,325
1968	40,862	109,137	38,208	18,399	9,317	16,968	91	233,022
1969	39,557	112,618	35,401	17,908	9,036	17,057	97	231,698
1970	38,013	112,160	34,185	17,642	9,144	16,941	75	228,190

(a) The number of units indicates the number of cows that can be milked simultaneously, i.e. the cow capacity of installed milking machines. (b) Includes particulars for the Northern Territory.

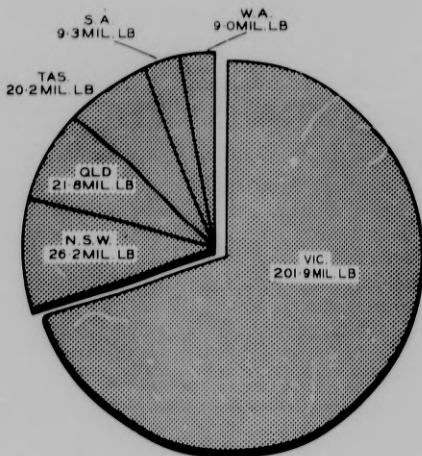
III. BUTTER

TABLE 8. - FACTORY PRODUCTION OF BUTTER (a)

Period	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
	- '000 lb -						
1965-66 (b)	73,901	250,680	70,189	16,160	18,133	31,370	460,433
1966-67 (b)	86,392	266,907	74,375	15,092	14,394	32,056	489,217
1967-68 (b)	71,281	241,240	63,546	12,133	13,248	30,865	432,313
1968-69 (a)	52,172	280,206	43,033	14,507	13,937	35,315	439,220
1969-70p (c) -							
July	2,941	12,939	2,662	1,521	1,644	1,133	22,841
August	4,277	26,207	3,276	1,683	1,809	2,453	39,705
September	6,230	37,388	4,164	2,013	1,993	3,999	55,787
October	7,728	44,821	4,749	2,144	2,010	5,019	66,470
November	7,955	43,088	5,470	1,775	1,503	5,087	64,880
December	8,124	39,726	6,251	1,490	1,198	5,051	61,839
Total, July to December	37,256	204,470	26,573	10,626	10,157	22,741	311,523
January	7,024	33,466	6,037	1,393	511	4,313	52,744
February	6,034	23,639	5,274	1,098	225	3,130	39,399
March	5,369	18,876	4,640	826	226	2,484	32,421
April	3,723	14,510	3,246	948	242	1,716	24,385
May	2,517	10,030	2,363	1,100	582	918	17,510
June	1,959	9,062	2,125	1,278	1,070	730	16,225
Total, year 1969-70(c)	63,881	313,753	50,258	17,268	13,014	36,033	494,206
1970-71p (c) -							
July	2,443	15,456	2,268	1,398	1,365	1,165	24,095
August	2,853	27,787	2,530	1,493	1,527	2,365	38,556
September	3,533	35,144	2,667	1,616	1,706	3,339	48,006
October	4,783	42,264	3,579	1,802	1,779	4,214	58,421
November	5,996	42,342	4,989	1,574	1,513	4,618	61,033
December	6,571	38,868	5,735	1,446	1,076	4,525	58,221
Total, July to December	26,180	201,861	21,777	9,330	8,966	20,227	288,331
	- per cent -						
Percentage change, six months ended Dec., 1970 on 1969	29.7	-1.1	-18.1	-12.2	-11.7	-11.1	-7.5

(a) Includes butter equivalent of butteroil production. (b) Derived from annual factory census. (c) Source: Commonwealth Dairy Produce Equalisation Committee Ltd. and State Departments of Agriculture.

BUTTER
FACTORY PRODUCTION-STATES
SIX MONTHS ENDED DECEMBER 1970



FACTORY PRODUCTION, AUSTRALIA- 288.3 MIL. LB

TABLE 9. - PRODUCTION AND UTILISATION OF BUTTER : AUSTRALIA

Year	Changes in stocks (a)	Factory production	Exports (b)		Available for consumption in Australia	
			Quantity	Proportion of production	Total quantity	Per head
	'000 lb	'000 lb	'000 lb	%	'000 lb	lb
1965-66	(+ 19,398	460,433	190,607	41.4	250,428	21.8
1966-67	(- 872	489,217	234,611	48.0	255,478	21.8
1967-68	(- 3,068	432,313	177,331	41.0	258,050	21.6
1968-69	(+ 11,471	439,220	170,709	38.9	257,040	21.1
1969-70p	(+ 12,974	494,206	226,075	45.7	255,157	20.5
July to December p -						
1969	(+ 65,851	311,523	117,492	37.7	128,180	10.4
1970	(+ 54,979	288,331	105,264	36.5	128,088	10.3

(a) Balance figure (includes imports). (b) Includes ghee, butter concentrate expressed as butter, and butter shipped as ships' stores.

Bulk butter graded for export. All butter exported comes under the provisions of the Exports (Dairy Produce) Regulations and is subject to supervision, inspection and examination by officers appointed for that purpose. Grading is carried out according to quality which is fixed by regulation.

TABLE 10. - BULK BUTTER GRADED FOR EXPORT (a) : AUSTRALIA

(Source : Department of Primary Industry)

Year	Choicest quality		First quality		Second and pastry quality (b)		Total	
	'000 lb	%	'000 lb	%	'000 lb	%	'000 lb	%
1965-66	148,642	73.7	41,768	20.7	11,409	5.7	201,819	100.0
1966-67	164,364	77.3	37,126	17.5	11,111	5.2	212,601	100.0
1967-68	136,312	80.2	25,581	15.1	8,021	4.7	169,914	100.0
1968-69	145,577	86.1	16,923	10.0	6,658	3.9	169,158	100.0
1969-70	176,642	87.7	18,716	9.3	6,002	3.0	201,360	100.0
July to December -								
1969	125,165	89.2	11,615	8.3	3,597	2.6	140,377	100.0
1970	97,359	88.8	9,389	8.6	2,844	2.6	109,592	100.0

(a) Includes unsalted. (b) Includes rejected butter.

TABLE 11. - EXPORTS OF BUTTER (a) TO VARIOUS COUNTRIES : AUSTRALIA

Country of consignment	1966-67	1967-68	1968-69	1969-70 p	July to December		Proportion of Total, July to December	
					1969	1970 _p	1969	1970
	- '000 lb -						%	%
Ceylon	2,373	1,338	2,793	2,875	1,380	1,673	1.4	2.1
China, Republic of (Taiwan)	603	623	598	623	280	395	0.3	0.5
Honduras (British)	190	261	495	455	259	397	0.3	0.5
Hong Kong	3,539	3,005	3,474	4,379	2,324	2,114	2.4	2.6
Malaysia	2,611	2,514	2,244	2,137	1,087	1,272	1.1	1.6
Mauritius	760	612	538	689	368	469	0.4	0.6
Muscat and Oman	202	371	529	834	367	349	0.4	0.4
New Caledonia	712	696	559	624	355	437	0.4	0.5
Papua and New Guinea	1,344	1,376	1,404	1,601	914	891	0.9	1.1
Peru	2,610	762	728	860	424	1,932	0.4	2.4
Polynesia	775	565	373	793	554	328	0.6	0.4
Saudia Arabia	2,126	3,031	2,536	3,011	1,448	1,698	1.5	2.1
Singapore	4,208	3,408	3,301	2,728	1,632	1,679	1.7	2.1
South Africa	2,240	..	..	1	1	784	..	1.0
Thailand	652	505	535	530	267	325	0.3	0.4
United Kingdom	160,055	125,093	116,213	153,694	82,470	64,750	84.0	79.4
Other Countries	20,550	4,474	4,545	3,993	4,068	2,037	3.9	2.3
TOTAL	205,550	148,634	140,865	179,827	98,198	81,530	100.0	100.0

(a) Excludes ghee, butter concentrate and ships' stores.

TABLE 12. - STOCKS OF BUTTER HELD IN MAIN COLD STORES : AUSTRALIA

(Source : Australian Dairy Produce Board)

('000 lb)

End of month	1966-67	1967-68	1968-69	1969-70	1970-71
July	21,309	19,163	21,340	22,953	26,098
August	23,081	20,037	22,550	26,230	19,911
September	21,858	27,220	31,969	37,059	25,507
October	32,785	38,974	32,803	35,056	26,374
November	48,937	38,985	43,956	45,553	41,346
December	51,016	55,523	41,077	52,037	52,539
January	65,253	68,522	47,342	42,428	
February	68,234	69,153	57,380	52,593	
March	61,703	68,461	52,416	59,559	
April	54,416	55,299	52,559	54,790	
May	38,555	40,589	41,041	46,202	
June	27,212	29,745	27,559	32,782	

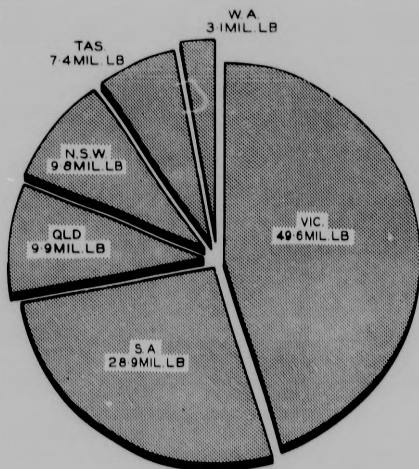
IV. CHEESE

TABLE 13. - FACTORY PRODUCTION OF CHEESE

Period	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	Aust.
	- '000 lb -						
1965-66 (a)	9,786	58,158	17,773	36,281	2,712	6,590	131,300
1966-67 (a)	12,023	67,907	23,071	38,598	3,807	8,427	153,834
1967-68 (a)	12,074	73,570	22,181	32,773	4,373	10,414	155,385
1968-69 (b)	12,201	75,256	17,871	42,218	4,458	12,834	164,838
1969-70 (b) -							
July	1,015	3,726	1,273	3,440	489	428	10,370
August	1,275	6,930	1,632	4,158	496	933	15,425
September	1,872	8,018	1,961	4,796	482	1,466	18,595
October	2,199	9,136	2,150	5,219	486	1,746	20,935
November	2,301	8,602	2,255	4,624	414	1,697	19,894
December	2,266	8,235	2,299	4,212	316	1,588	18,916
<u>Total, July to December</u>	10,927	44,647	11,570	26,450	2,683	7,858	104,134
January	2,003	7,817	2,367	2,960	281	1,508	16,936
February	1,543	5,774	1,826	1,487	104	1,019	11,753
March	1,337	5,470	1,593	1,421	..	698	10,520
April	1,105	4,654	1,149	1,430	28	374	8,740
May	912	2,963	1,054	2,489	232	329	7,978
June	877	2,540	932	3,200	459	135	8,143
<u>Total, year 1969-70 (b)</u>	18,705	73,866	20,491	39,437	3,787	11,921	168,206
1970-71 (b) -							
July	1,017	4,009	1,090	3,980	495	288	10,877
August	1,159	6,910	1,221	4,515	520	744	15,059
September	1,454	8,821	1,291	5,221	528	1,101	12,416
October	1,916	10,565	1,667	5,754	541	1,660	22,104
November	2,076	10,039	2,062	5,176	506	1,855	21,713
December	2,170	9,287	2,534	4,288	492	1,783	20,554
<u>Total, July to December</u>	9,792	49,631	9,865	28,934	3,081	7,430	108,733
	- per cent -						
Percentage change, Six months ended December, 1970 on 1969	-10.4	11.2	-14.7	9.4	14.8	-5.5	4.4

(a) Derived from annual factory census. (b) Source : Commonwealth Dairy Produce Equalisation Committee Ltd and producers NOT within the Equalisation Scheme.

CHEESE
FACTORY PRODUCTION-STATES
SIX MONTHS ENDED DECEMBER 1970



FACTORY PRODUCTION, AUSTRALIA - 108.7 MIL LB

Factory production of cheese by varieties. Particulars of the factory production of cheese by varieties in Australia for the years 1963-64 to 1967-68 are shown in Volume 32, No. 7 of this bulletin issued on 14 October 1969. Particulars for 1968-69 will be published later this year.

TABLE 14. - PRODUCTION AND UTILISATION OF CHEESE : AUSTRALIA

Year	Changes in stocks (a)	Factory production	Exports (b)		Available for consumption in Australia	
			Quantity	Proportion of production	Total quantity	Per head
	'000 lb	'000 lb	'000 lb	%	'000 lb	lb
1965-66	(-) 16,916	131,300	56,964	43.4	91,251	7.9
1966-67	(+) 5,248	153,834	57,423	37.3	91,162	7.8
1967-68	(-) 10,527	155,384	76,249	49.1	89,663	7.5
1968-69	(+) 12,375	164,838	56,494	34.3	95,968	7.9
1969-70p	(-) 22,532	168,206	90,199	53.7	100,540	8.1
July to Dec. p -						
1969	(+) 1,317	104,134	52,076	50.0	50,741	4.1
1970	(-) 6,117	108,733	40,984	37.7	73,866	5.9

(a) Balance figure (includes imports). (b) Includes ships' stores.

Bulk cheddar cheese graded for export. As in the case of butter, bulk cheddar cheese exported comes under the provisions of the Exports (Dairy Produce) Regulations and is graded according to quality in a manner similar to butter.

TABLE 15. - BULK CHEESE GRADED FOR EXPORT : AUSTRALIA

(Source : Department of Primary Industry)

Year	Bulk cheddar						Other cheese		Total	
	Choicest quality		First quality		Second quality (a)					
	'000 lb	%	'000 lb	%	'000 lb	%	'000 lb	%	'000 lb	%
1965-66	2,773	5.2	34,872	65.8	2,554	4.8	12,825	24.2	53,024	100.0
1966-67	10,500	16.7	34,886	55.5	1,295	2.1	16,194	25.8	62,875	100.0
1967-68	19,967	26.2	40,214	52.7	1,972	2.6	14,154	18.5	76,307	100.0
1968-69	29,036	35.0	31,339	37.8	2,721	3.3	19,839	23.9	82,935	100.0
1969-70	22,723	28.0	34,248	42.3	4,236	5.2	19,831	24.5	81,038	100.0
July to Dec. -										
1969	16,481	33.5	19,162	39.0	3,573	7.3	9,934	20.2	49,150	100.0
1970	15,736	34.7	16,538	36.5	1,597	3.5	11,466	25.3	45,337	100.0

(a) Includes rejected.

TABLE 16. - EXPORTS OF CHEESE (a) TO VARIOUS COUNTRIES : AUSTRALIA

Country of consignment	1966-67	1967-68	1968-69	1969-70	July to December		Proportion of Total	
					1969	1970p	July to December	
							1969	1970
	'000 lb						%	%
Bahrain	382	435	572	551	297	388	0.6	0.9
Hong Kong	472	423	473	594	216	278	0.4	0.7
Indonesia	156	254	249	304	172	338	0.4	0.8
Japan	20,969	14,865	17,290	24,463	11,264	10,493	23.2	25.7
Kuwait	1,592	1,000	1,494	2,387	1,179	1,170	2.4	2.9
Malta	409	323	299	857	130	633	0.3	1.5
Mauritius	313	375	313	356	138	269	0.3	0.7
Okinawa	7	43	327	591	234	282	0.5	0.7
Panama	27	52	86	549	289	601	0.6	1.5
Philippines	6,978	5,861	6,848	5,584	2,767	6,505	5.7	15.9
Portugal	..	..	..	451	225	454	0.5	1.1
Saudi Arabia	3,495	3,057	5,568	4,807	2,055	3,484	4.2	8.5
Singapore	590	638	674	904	282	553	0.6	1.4
Trucial States	186	286	559	650	337	267	0.7	0.7
United Kingdom	10,207	40,852	10,745	33,659	21,447	10,624	44.2	26.0
United States of America	3,141	2,406	3,082	4,411	2,888	1,679	6.0	4.1
Other Countries	8,271	5,166	7,517	8,919	4,628	2,862	9.4	6.9
TOTAL	57,195	76,036	56,096	90,037	48,549	40,880	100.0	100.0

(a) Details relate to Australian produce only i.e. excludes re-exports. Also excludes ships' stores.

TABLE 17. - EXPORTS OF CHEESE (a) BY VARIETIES : AUSTRALIA

('000 lb)

	1966-67	1967-68	1968-69	1969-70	July to December	
					1969	1970p
Other - Cheddar and epicure cheddar	30,893	55,479	28,821	62,016	32,405	25,708
Parmesan (incl. parmigiano and reggiono)	62	129	64	70	41	79
Other	13,606	9,379	10,289	7,584	4,456	5,549
TOTAL	57,195	76,036	56,096	90,037	48,549	40,880

(a) Excludes ships' stores. (b) Including pastes and spreads.

TABLE 18. - IMPORTS OF CHEESE FROM VARIOUS COUNTRIES : AUSTRALIA

Country of origin	1966-67	1967-68	1968-69	1969-70	July to December		Proportion of Total, July to December	
					1969	1970	1969	1970
	- '000 lb -						%	%
Bulgaria	832	921	1,043	1,541	693	475	9.8	6.7
Denmark	1,858	1,960	2,009	2,146	848	996	12.0	14.1
Finland	353	309	729	1,013	467	541	6.6	7.6
France	125	290	278	267	128	163	1.8	2.3
Germany, Fed. Rep. of	180	315	342	592	193	206	2.7	2.9
Greece	468	395	439	339	186	338	2.6	4.8
Hungary	232	138	217	330	110	161	1.6	2.3
Italy	955	991	1,132	1,179	548	515	7.8	7.3
Netherlands	1,302	1,371	1,272	1,481	748	727	10.6	10.3
New Zealand	858	849	1,954	2,630	1,510	1,319	21.4	18.7
Norway	581	683	912	819	273	409	3.9	5.8
Romania	537	608	624	1,018	717	687	10.2	9.7
Sweden	134	391	530	576	268	293	3.8	4.1
Switzerland	230	281	350	357	177	181	2.5	2.6
Other countries	107	181	291	434	192	61	2.7	0.8
	8,752	9,683	12,122	14,722	7,058	7,072	100.0	100.0

TABLE 19. - IMPORTS OF CHEESE BY VARIETIES : AUSTRALIA

	('000 lb)				July to December	
	1966-67	1967-68	1968-69	1969-70	1969	1970
Processed (a) - cheddar		41	86	318	47	338
other	1,476	957	990	1,383	576	740
Blue vein	575	660	708	786	293	320
Cheddar	688	769	1,796	2,297	1,376	923
Edam and gouda	1,593	1,808	1,711	1,963	977	910
Parmesan (incl. parmigiano and reggiano)	213	155	149	258	174	126
Provolone	339	410	460	613	286	223
Camembert				308	113	144
Emmenthaler				402	168	162
Fetta	3,869	4,883	6,222	1,640	841	878
Kasseri				131	53	80
Pecorino				6	5	1
Other (incl. curd)				4,617	2,149	2,227
TOTAL	8,752	9,683	12,122	14,722	7,058	7,072

(a) Including pastes and spreads

TABLE 20. - STOCKS OF CHEESE HELD IN MAIN GOLD STORES : AUSTRALIA

(Source : Australian Dairy Produce Board)

End of month	('000 lb)				
	1966-67	1967-68	1968-69	1969-70	1970-71
July	5,327	9,663	8,268	22,841	9,081
August	5,540	9,451	10,604	23,959	9,872
September	7,759	13,577	14,511	26,880	13,274
October	9,363	15,340	19,976	25,070	14,885
November	14,325	20,480	23,253	24,725	15,868
December	15,443	23,598	27,866	22,373	16,912
January	17,210	28,923	28,260	21,022	
February	17,759	28,367	25,668	21,560	
March	15,781	19,094	29,646	18,305	
April	14,562	18,173	28,134	14,773	
May	10,873	10,709	27,556	13,550	
June	10,098	7,130	23,914	10,349	

V. PROCESSED MILK PRODUCTS

TABLE 21. - PRODUCTION OF PROCESSED MILK PRODUCTS : AUSTRALIA
 A. CONDENSED MILK, ICE CREAM MIX, INFANTS' AND INVALIDS' FOOD AND CASEIN

Period	Condensed, concentrated and evaporated milk		Skim	Liquid ice cream mix	Infants', invalid and health beverages		Casein
	Full cream				Infants' milk powder	Other (incl. malted milk)	
	Sweetened (a)	Unsweetened					
	- '000 lb -						
1965-66	73,985	88,482	21,196	15,198	13,723	31,557	50,712
1966-67	61,510	91,700	24,974	15,422	14,535	34,813	45,812
1967-68	47,316	87,946	18,932	9,065	16,233	32,001	44,815
1968-69p	40,437	98,658	19,045	7,245	17,601	36,981	64,963
1969-70p -							
July	2,211	6,334	1,178	534	1,562	3,906	2,107
August	3,350	10,935	1,306	681	1,062	3,504	5,538
September	3,648	10,979	1,557	737	2,223	3,375	9,382
October	4,086	11,202	2,390	771	1,954	3,512	10,812
November	5,142	9,679	2,388	795	1,907	2,851	11,242
December	4,318	11,038	1,771	904	2,131	1,979	9,377
<u>Total, July to December</u>	22,755	60,168	10,590	4,422	10,839	19,127	48,458
January	2,715	11,758	1,927	854	2,149	1,555	7,427
February	2,345	9,879	1,770	821	1,420	3,038	5,522
March	2,593	7,409	1,582	917	1,680	2,905	3,865
April	2,602	5,955	1,039	728	2,035	3,098	2,814
May	2,401	3,478	732	598	1,627	2,946	1,854
June	1,138	2,010	963	566	1,436	2,720	1,199
<u>Total, year 1969-70</u>	36,551	100,656	18,603	8,906	21,186	35,388	71,139
1970-71p -							
July	2,257	3,564	1,008	854	1,839	3,110	2,253
August	3,534	8,165	1,387	997	1,672	3,398	5,234
September	3,991	15,003	3,217	1,230	1,737	3,378	7,792
October	3,868	14,259	5,535	1,218	1,513	3,743	9,441
November	3,452	16,634	5,141	1,311	2,035	3,351	9,589
December	3,714	17,909	3,183	1,431	1,697	2,309	8,770
<u>Total, July to December</u>	20,815	75,533	19,471	7,042	10,492	19,290	43,079
	- per cent -						
Percentage change, Six months ended December, 1970 on 1969	-8.5	25.5	83.9	59.2	-3.2	0.9	-11.1

For footnotes, see end of table on page 20.

TABLE 21. - PRODUCTION OF PROCESSED MILK PRODUCTS : AUSTRALIA - continued

B. POWDERED MILK

Period	Full cream		Skim				Buttermilk or mixed skim and buttermilk		Total	
	Spray	Roller	Without added ingredients		With added ingredients		Spray	Roller		
			Spray	Roller	Bakers' powder	Other				
	- '000 lb -									
1965-66	42,888	2,172	84,018	14,466	5,577	8,281	8,345	17,555	183,301	
1966-67	46,276	1,742	162,351	13,153	5,401	7,679	12,829	19,689	269,120	
1967-68	46,125	1,147	161,071	18,606	5,937	10,415	15,836	17,756	276,893	
1968-69p	53,083	1,341	123,395	14,679	5,765	13,076	14,902	19,735	245,976	
1969-70p -										
July		2,994	7,381	845	634	1,294	1,294	1,031	15,472	
August		3,974	14,173	1,467	652	1,931	2,722	1,562	26,481	
September		5,908	19,398	1,717	753	1,705	2,900	2,204	34,584	
October		7,249	26,825	1,776	1,149	1,444	2,421	2,717	43,581	
November		6,634	22,947	1,643	907	1,471	2,591	2,346	38,539	
December		6,383	65	23,438	1,540	993	1,125	2,106	2,123	37,773
Total, July to Dec.	32,677	531	114,160	8,987	5,088	8,970	14,035	11,983	196,430	
January	6,727	147	20,380	1,337	474	925	1,935	1,939	33,864	
February	3,897	125	11,816	1,030	467	641	1,437	1,480	20,892	
March	3,244	75	8,588	865	627	1,409	722	1,330	16,861	
April	1,589	39	6,126	576	513	1,443	1,632	832	12,749	
May	1,247	110	4,755	481	517	1,030	1,340	669	10,149	
June	1,488	65	5,359	480	496	1,391	693	742	10,715	
Total, year 1969-70	50,869	1,091	171,184	13,756	8,182	15,809	21,794	18,976	301,661	
1970-71p -										
July		2,849	8,999	754	504	1,828	890	1,052	16,876	
August		4,435	14,731	1,147	593	1,831	1,703	1,802	26,242	
September		5,766	17,155	1,046	694	2,188	1,980	2,407	31,401	
October		6,835	80	23,822	1,766	777	2,184	2,291	40,526	
November		7,200	71	26,545	1,876	790	1,546	2,951	2,440	43,419
December		7,485	104	23,745	1,844	805	1,303	2,916	2,055	40,257
Total, July to Dec.	34,311	679	114,997	8,432	4,163	10,880	13,211	12,048	93,721	
	- per cent -									
Percentage change, six months ended Dec., 1970 on 1969	5.4	0.7	-6.2	-8.2	21.3	-5.2	0.5	1.2		

(a) Includes "coffee and milk".

TABLE 22. - PRODUCTION AND UTILISATION OF PROCESSED MILK PRODUCTS : AUSTRALIA

Year	Net change in factory stocks (a) ('000 lb)	Production ('000 lb)	Exports (b)		Quantity available for consumption in Australia ('000 lb)
			Quantity ('000 lb)	Proportion of production (per cent)	
CONDENSED, CONCENTRATED AND EVAPORATED MILK (c)					
1965-66	(d) (-) 2,215	183,663	59,378	32.3	126,500
1966-67	(d) (+) 994	178,184	51,043	28.6	126,147
1967-68	(d) (-) 2,271	154,194	25,565	16.6	130,900
1968-69	(d) (+) 1,449	158,140	23,878	15.1	132,813
1969-70p	(d) (-) 2,061	155,810	24,438	15.7	133,433
LIQUID ICE CREAM MIX					
1965-66	(-) 293	(e) 15,749	211	1.3	15,831
1966-67	(-) 13	15,422	n.a.	n.a.	n.a.
1967-68	(+) 31	9,065	771	8.5	8,263
1968-69	(-) 3	7,245	497	6.9	6,752
1969-70p	(-) 9	8,906	537	6.0	8,378
INFANTS' AND INVALIDS' FOOD (INCLUDING MALTED MILK)					
1965-66	(-) 4,525	45,280	13,306	29.4	36,499
1966-67	(-) 5,186	49,348	10,701	21.7	43,833
1967-68	(-) 7,983	48,234	(f) 26,785	55.5	29,432
1968-69	(-) 7,547	54,582	(f) 29,079	53.3	33,050
1969-70p	(-) 5,194	56,574	(f) 29,652	52.4	32,116
CASEIN					
1965-66	(+) 1,991	50,712	43,342	85.5	5,380
1966-67	(+) 802	45,812	42,471	92.7	2,539
1967-68	(+) 1,637	44,815	37,020	82.6	6,158
1968-69	(+) 611	64,963	58,217	89.6	6,135
1969-70p	(-) 106	71,139	66,812	93.9	4,433
POWDERED MILK (FULL CREAM, SKIM AND BUTTERMILK)					
1965-66	(+) 10,898	183,301	62,198	33.9	110,205
1966-67	(+) 25	269,120	149,101	55.4	119,995
1967-68	(+) 26,652	276,893	118,736	42.9	131,505
1968-69	(-) 20,635	245,976	121,957	49.6	144,654
1969-70p	(-) 6,395	301,661	164,223	54.4	143,833

(a) Includes allowance for imports. (b) Includes ships' stores. (c) Includes full cream and skim milk. (d) Excludes condensed, concentrated and evaporated skim milk. (e) Includes powdered ice cream mix. (f) New series; not comparable with figures for earlier years.

TABLE 23. - EXPORTS OF PROCESSED MILK PRODUCTS (a) : AUSTRALIA

Period	Preserved, condensed, concentrated, etc.		Liquid ice cream mix	Infants' and invalids' food (b) (essentially of milk)	Casein	Dried or in powdered form	
	Sweetened	Unsweetened				Full cream	Skim
Year -			- '000 lb -				
1965-66	44,661	14,228	211	13,301	43,342	20,181	42,018
1966-67	35,781	14,543	n.a.	10,698	42,470	28,282	118,279
1967-68	13,228	11,638	771	(c) 26,783	37,020	24,865	87,025
1968-69	12,653	10,512	497	(c) 29,079	58,217	30,006	88,259
1969-70	10,606	13,130	537	(c) 29,652	66,812	33,789	116,751
July to December -							
1969	6,579	7,478	346	(c) 13,899	32,453	19,406	57,957
1970p	4,581	5,785	737	(c) 15,663	30,952	20,738	61,434
Percentage change, six months ended	- per cent -						
Dec., 1970 on 1969	-30.4	-2.6	213.0	12.7	-4.6	6.9	6.0

(a) Excludes ships' stores. (b) Includes malted milk. (c) New series; not comparable with figures for earlier years.

VI. FACTORIES PRODUCING BUTTER, CHEESE AND PROCESSED MILK PRODUCTS

In respect of the year 1968-69, the Commonwealth Bureau of Census and Statistics has conducted the annual census of manufacturing industry as part of a programme of fully integrated economic censuses covering manufacturing and mining industries, and retail and wholesale trade.

The integrated economic censuses have been a major undertaking involving the development of new concepts, definitions and procedures. Inevitably there has been a considerable delay in finalising the results of the censuses, and for the manufacturing industry, it has not been possible to provide more up to date statistics than those for 1967-68 which were included in Volume 32 No. 7 of this bulletin issued on 14 October 1969.

VII. MARKETING ARRANGEMENTS AND ASSISTANCE TO THE DAIRYING INDUSTRY

Butter and Cheese Equalisation Scheme. A butter and cheese price equalisation scheme has been in operation for a number of years by voluntary action, based on arrangements between the manufacturers and the Commonwealth Dairy Produce Equalisation Committee Ltd. The Committee, which comprises members of the State Dairy Produce Boards and other persons representing the industry, enters into agreements with manufacturers to secure to them equal rates from sales of butter and cheese, and for this purpose fixes basic prices at which these products, sold in Australia or abroad, are to be taken into account. The effect is that the local and export trade are distributed in equitable proportions amongst the manufacturers. The Committee equalises returns to factories through an Equalisation Fund. Details of butter and cheese equalisation rates are shown in Table 23.

Casein Equalisation Plan. Details of the Equalisation Plan, operated by the Casein Equalisation Advisory Committee from July 1946 to June 1950 and from 21 January 1952, were given in Volume 30, No. 14 of this bulletin.

The average casein equalisation realisation per cwt for 1964-65 was \$17.38; for 1965-66, \$24.918; for 1966-67, \$23.556; for 1967-68, \$24.606 and for 1968-69, \$22.235. For 1969-70, the current interim rate is \$24.500 per cwt. For 1970-71 the interim rate is \$20.000 per cwt.

Wholesale prices of butter and cheddar cheese in Australia. Wholesale prices of choicest grade bulk butter and cheddar cheese in Australia are determined by the Australian Dairy Industry Council. Prices currently prevailing for butter are those determined at 31 March 1969 (\$54.60 per cwt) replacing those stipulated at 14 February 1966 (\$52.08 per cwt); cheddar cheese increased from \$33.04 per cwt determined at 7 November 1966 to \$34.16 per cwt as from 10 November 1970. Details of prices operating prior to 1966 are shown in Volume 31, No. 7 of this bulletin.

Overseas marketing. Historical information on overseas marketing appears in Volume 30, No. 14 of this bulletin.

Butter imports from Australia into the United Kingdom are subject to quota control. Australia's basic quota entitlement for the year 1 April 1971 to 31 March 1972 has been fixed at 66,790 tons, compared with 67,600 tons for 1970-71 and 65,100 tons for 1969-70.

Prior to 1 April 1971, Australia and New Zealand shared a combined basic quota entitlement for imports of cheese into the United Kingdom. For the year ended 31 March 1971 Australia's share of the quota was 11,900 tons. From 1 April 1971, Australia and New Zealand are no longer subject to a shared quota. For the year ending 31 March 1972 Australia's basic quota entitlement has been fixed at 12,500 tons.

Details of the average rates realised on all butter and cheddar cheese sold overseas are given in Table 25.

Commonwealth bounties and stabilisation plans. Bounties are distributed by the Commonwealth Dairy Produce Equalisation Committee Limited through factories to milk producers by payments on butter and cheese manufactured.

Since 1952, these bounties have been disbursed under the provision of a series of five-year stabilisation plans. The current plan, which came into operation on 1 July 1967, is the fourth in the series. Details of the three previous plans and of earlier arrangements for financial assistance to the dairying industry are given in Volume 30, No. 14 of this bulletin.

The current plan provides for continuation of payment of the bounty on the production of butter, cheese and other related products with a minimum of 40 per cent butterfat content, conditional on participation in equalisation by disbursing factories. An amount of \$27,000,000 has been allocated for this purpose for each year of the current plan. This is the amount provided in each year of the previous plan. The Government's underwriting of average returns to dairy farmers as in previous plans was also continued. For the years 1967-68 to 1969-70, the level of returns underwritten has been set at 34.0 cents per pound commercial butter basis.

For 1970-71 new arrangements have been adopted because of changed circumstances in the industry. The new arrangements relate to industry proposals to limit butter and cheese production during 1970-71 to 220,000 tons and 70,000 tons respectively.

In lieu of the underwriting arrangements for butter and cheese the Government has provided a grant of \$15.882 million for distribution as bounty on the season's production of butter and cheese under the Dairying Industry Act, additional to the present bounty of \$27 million. The total bounty for the season will thus be \$42.882 million.

The grant represents the amount the Government estimated will be required to maintain producer returns at the 34 cents per pound commercial butter equivalent if production of butter and cheese is held in 1970-71 to the levels indicated. If production exceeds these levels, producers' returns will fall below the 34 cent level.

In addition to the above the Government has agreed that a grant of \$3.379 million be made to the industry for distribution as an export bounty on skim milk powder, casein and other non-fat products produced and exported in 1970-71.

The Dairying Industry Stabilisation Fund was established in July 1948 for the purpose of stabilising returns from exports of butter and cheese. Details of the fund are given in Volume 30, No. 14 of this bulletin.

Bounty on the butterfat content of processed milk products produced was payable from 1 July 1942 until 30 June 1948, and again from 1 July 1949 until 30 June 1952. No Commonwealth bounty was paid on the production of processed milk products under the various stabilisation plans. However, in 1962 the Commonwealth Government provided a separate bounty, under the provisions of the Processed Milk Products Bounty Act 1962, for the payment of a maximum amount of \$700,000 as a bounty on exports of processed milk products in 1962-63, to prevent a decline in the industry in this country. The bounty is to continue under present legislation until 30 June 1972, the maximum amounts made available being \$1,000,000 for 1963-64 and \$800,000 for each subsequent year.

TABLE 24. - BUTTER AND CHEESE : RATES REALISED ON SALES, AVERAGE EQUALISATION RATES AND RATES OF COMMONWEALTH BOUNTY UNDER DAIRYING INDUSTRY ACTS : AUSTRALIA
(Source : Commonwealth Dairy Produce Equalisation Committee Ltd)

(\$ per cwt)

Year	Rates realised on sales				Average equalisation rate	Rate of bounty	Rate of overall return to manufacturer
	Intra-state	Inter-state	Manufacturing	Overseas			
BUTTER							
1965-66	50.06	47.47	32.26	30.63	40.27	6.04	46.28
1966-67	49.88	47.46	31.97	29.87	39.38	5.66	45.04
1967-68	49.22	47.17	31.87	27.60	39.50	6.31	45.81
1968-69	(a)	(a)	(a)	(a)	(b) 38.75	6.02	(b) 44.77
1969-70	(a)	(a)	(a)	(a)	(b) 38.00	(b) 5.55	(b) 43.55
1970-71	(a)	(a)	(a)	(a)	(b) 35.20	(b) 8.63	(b) 43.63
CHEDDAR CHEESE							
1965-66		29.43		21.38	25.99	2.36	28.34
1966-67		31.24		21.52	27.01	2.04	29.05
1967-68		31.53		17.61	25.04	2.38	27.42
1968-69		(a)		(a)	(b) 24.70	2.87	(b) 27.57
1969-70		(a)		(a)	(b) 24.00	(b) 2.65	(b) 26.65
1970-71		(a)		(a)	(b) 23.75	(b) 3.27	(b) 27.02

(a) Not yet available. (b) Rates are of an interim nature and represent only payments made to date; further payments by the Commonwealth Dairy Produce Equalisation Committee Ltd are expected.

TABLE 25. - AVERAGE OVERALL RETURNS ON COMMERCIAL BUTTER : AUSTRALIA

(cents per lb)

(Source : Commonwealth Dairy Produce Equalisation Committee Ltd)

Year	Rate of overall return to manufacturer	Estimated manufacturing cost	Return to dairy farmer
1965-66	41.324	4.449	36.875
1966-67	40.216	4.583	35.633
1967-68	40.904	4.583	36.321
1968-69	(a) 39.969	4.750	35.219
1969-70	(a) 38.884	4.911	34.000
1970-71	(a) 39.134	5.161	33.973

(a) Rates are of an interim nature and represent only payments made to date; further payments by the Dairy Produce Equalisation Committee Ltd are expected.

Commonwealth Extension Services Grant

For over a decade, prior to 1966-67 the Commonwealth Government had provided moneys to strengthen State extension services to primary producers. As part of these activities there had been a Commonwealth Dairy Industry Extension Grant, under which a total of \$9,600,000 had been provided up to and including 1965-66. As from 1 July 1966 the Commonwealth Government increased the total funds that it made available for extension purposes and decided that all grants, including the Dairy Industry Extension Grant, would be brought into a comprehensive arrangement in support of extension and regional research activities. (The various joint Commonwealth/Industry research funds, such as the Dairy Produce Research Trust Account, continued independently of these arrangements). Under the amalgamated Commonwealth Extension Services Grant, support for such activities of benefit to the dairy industry has increased beyond the level formerly obtaining (\$700,000 in 1965-66).

Support will continue to be available in the coming five-year term of the Grant, commencing 1 July 1971.

Dairy industry research and sales promotion. At the request of the Australian Dairy Industry Council, legislation was enacted in 1958 to provide for a sales promotion campaign for butter and cheese in Australia and also for research into dairy industry problems. The legislation provided for a statutory levy to be imposed on all butter and cheese manufactured in Australia.

In 1965, in the interests of efficiency and economy, the levy on production of butter and cheese for research and sales promotion and the levy on exports of butter and cheese, which provided the Australian Dairy Produce Board with funds for overseas market development, were combined into one levy to cover all the Board's requirements.

The Butterfat Levy Act 1965-66 provided a maximum rate of levy of \$0.60 per cwt for butterfat used in the manufacture of butter, butterfat products and cheese, to be apportioned between the three primary functions of the Board in the following ratio : Overseas Marketing (2 parts), \$0.24 ; Local Promotion (2 parts) \$0.24 ; and Research (1 part), \$0.12. The operative rate of levy from 1 July 1967 was fixed at \$0.53 per cwt of butterfat, divided as follows : Overseas Marketing, \$0.21 ; Local Promotion, \$0.22 ; and Research, \$0.10. From 1 September 1970, the rate of levy was fixed at \$0.57 per cwt of butterfat, divided as follows : Overseas Marketing, \$0.23 ; Local Promotion, \$0.24 ; and Research, \$0.10.

The Commonwealth Government contributes one-half of the cost incurred on approved projects included in the programme of research, with a maximum contribution of \$1 for \$1 against funds raised by way of levy and allocated to research. The sales promotion programme is financed solely by the levy.

The scheme is administered by the Australian Dairy Produce Board which, in respect of research, is advised by a statutory committee, namely the Dairy Produce Research Committee.

VIII. APPENDIX

TABLE 26. - HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE (a) HERD : NUMBER OF HOLDINGS, 31 MARCH 1970

Area of holding (acres)	Size of milk cattle herd (numbers)																Holdings with no milk cattle	Total all holdings
	1-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199	200 & over	Total		
NEW SOUTH WALES																		
1 - 19	65	7	3	4	9	2	1	1	..	2	..	1	1	..	..	96	8,464	8,560
20 - 29	74	4	5	7	4	1	2	1	1	1	1	..	1	..	..	102	2,422	2,524
30 - 49	90	10	10	11	33	29	24	7	4	0	1	..	1	..	2	222	3,277	3,499
50 - 69	69	8	5	5	27	56	49	27	8	9	5	..	..	1	2	271	2,042	2,313
70 - 99	84	4	13	13	38	67	106	89	68	35	16	11	15	..	1	560	2,008	2,568
100 - 149	138	7	7	13	38	88	141	221	228	160	107	63	68	4	1,287	2,606	3,893	
150 - 199	90	3	8	3	22	53	93	137	170	170	147	129	197	16	3	1,241	1,768	3,009
200 - 299	129	4	10	12	30	60	108	139	190	216	230	208	482	67	18	1,903	2,868	4,771
300 - 399	94	1	2	5	8	26	56	56	99	103	122	119	446	125	29	1,291	2,389	3,680
400 - 499	66	4	4	3	9	9	23	39	63	59	72	63	265	73	53	805	2,238	3,043
500 - 699	165	7	8	5	13	13	30	34	50	63	70	64	276	126	9	1,015	4,610	5,625
700 - 999	164	6	4	..	5	13	11	28	24	29	29	42	151	96	88	690	5,346	6,036
1,000 - 1,999	210	9	3	1	3	4	6	12	17	14	14	24	89	41	49	496	6,385	6,881
1,400 - 1,999	168	3	..	1	6	1	2	9	7	7	8	5	45	21	26	309	5,385	5,694
2,000 - 4,999	272	7	4	1	1	..	5	4	5	7	6	2	23	14	29	380	8,445	8,825
5,000 and over	159	9	3	..	1	1	1	..	2	..	..	..	4	4	11	195	4,792	4,987
TOTAL	2,037	93	89	84	247	423	658	804	936	876	827	731	2,064	588	406	10,863	65,075	75,908
VICTORIA																		
1 - 19	593	293	144	55	46	11	4	1	..	..	..	..	..	..	..	1,137	7,152	8,189
20 - 29	186	130	78	56	86	29	17	4	1	..	..	..	..	..	..	587	2,706	3,293
30 - 49	205	125	89	87	147	114	87	51	37	14	7	7	5	..	1	976	3,031	4,007
50 - 69	137	65	53	59	113	116	122	96	72	66	49	33	44	..	..	1,025	1,845	2,870
70 - 99	123	60	58	46	108	141	181	195	196	192	169	141	320	6	..	1,936	1,865	3,801
100 - 149	179	83	72	45	109	126	173	273	335	387	439	408	1,199	143	10	3,981	2,584	6,565
150 - 199	153	67	40	37	72	80	89	141	165	201	249	310	1,391	342	38	3,375	1,949	5,324
200 - 299	230	69	51	25	85	93	95	115	144	174	222	246	1,396	639	205	3,789	2,888	6,677
300 - 399	200	77	53	42	81	68	79	66	82	81	118	103	606	448	250	2,354	2,862	5,216
400 - 499	180	59	52	29	49	36	40	36	42	46	43	48	233	173	178	1,244	2,069	3,313
500 - 699	408	126	83	57	78	62	42	36	39	47	31	46	189	164	216	1,624	4,061	5,685
700 - 999	387	136	95	50	61	33	18	27	26	26	28	24	93	78	121	1,203	3,677	4,880
1,000 - 1,999	342	125	74	34	43	25	22	11	10	11	12	15	50	26	60	860	2,935	3,795
1,400 - 1,999	267	88	50	21	27	8	4	16	10	3	8	2	15	13	30	562	2,125	2,687
2,000 - 4,999	247	71	28	25	26	27	7	11	8	6	3	4	10	15	20	508	2,155	2,663
5,000 and over	34	16	7	4	3	1	3	1	3	1	1	4	5	6	4	93	440	533
TOTAL	3,871	1,580	1,027	672	1,134	970	983	1,080	1,170	1,255	1,379	1,391	5,556	2,053	1,133	25,254	44,244	69,488

(a) For definition, see end of table on page 30.

TABLE 26. - HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE (a) HERD : NUMBER OF HOLDINGS, 31 MARCH 1970 - CONTD

Area of holding (acres)	Size of milk cattle herd (numbers)															Holdings with no milk cattle	Total all holdings	
	1-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199	200 & over			Total
QUEENSLAND																		
1 - 19	58	16	11	5	3	2	2	1	..	..	..	..	..	..	..	98	1,776	1,874
20 - 29	39	17	5	9	6	1	..	1	..	..	..	..	..	..	..	78	752	830
30 - 49	61	18	14	11	11	7	6	3	1	..	..	..	..	..	..	132	1,251	1,383
50 - 69	38	17	13	18	29	20	10	8	6	..	..	..	1	..	..	160	1,315	1,475
70 - 99	96	24	23	31	99	69	52	34	25	16	7	4	4	..	..	484	2,216	2,700
100 - 149	134	27	19	21	99	139	132	107	99	57	23	26	28	1	2	914	2,923	3,836
150 - 199	134	24	22	31	106	161	197	160	137	108	87	64	74	6	5	1,316	2,442	3,758
200 - 299	139	28	23	28	89	132	212	216	217	180	158	106	177	18	9	1,732	2,398	4,130
300 - 399	99	9	19	18	48	90	146	173	211	175	135	122	211	33	8	1,497	1,958	3,455
400 - 499	72	8	7	6	33	34	50	62	95	107	91	82	217	39	10	913	1,293	2,211
500 - 699	84	5	7	14	27	48	42	74	99	116	117	99	314	83	37	1,166	2,045	3,211
700 - 999	47	9	8	9	17	30	31	38	55	59	52	57	184	51	28	675	1,625	2,300
1,000 - 1,999	52	5	8	2	9	11	22	22	28	39	38	33	124	42	22	457	1,611	2,068
1,400 - 1,999	25	3	5	1	8	11	10	13	14	18	16	15	51	19	23	224	1,052	1,284
2,000 - 4,999	68	3	9	1	10	12	12	11	8	12	10	10	45	17	11	239	2,597	2,836
5,000 and over	193	12	8	..	5	5	3	3	4	2	1	7	3	1	249	6,229	6,478	
TOTAL	1,339	225	201	205	599	772	927	926	999	889	736	619	1,437	312	156	10,342	33,487	43,829
SOUTH AUSTRALIA																		
1 - 19	208	85	37	10	2	1	2	..	..	..	..	..	..	..	..	345	5,140	5,485
20 - 29	74	48	43	25	15	2	..	..	..	1	..	..	..	..	..	208	1,549	1,753
30 - 49	74	46	46	50	61	25	11	4	1	..	..	..	..	..	..	319	1,570	1,839
50 - 69	43	41	26	22	54	64	32	12	10	5	2	..	..	..	..	311	755	1,066
70 - 99	44	35	29	19	57	79	86	68	38	12	14	4	10	1	..	496	732	1,228
100 - 149	50	26	29	26	45	42	76	71	57	37	39	17	25	4	..	544	599	1,143
150 - 199	21	16	9	26	27	33	48	42	56	34	38	46	4	..	..	421	407	828
200 - 299	45	34	26	24	29	22	38	39	30	47	41	37	104	16	4	536	605	1,141
300 - 399	33	27	19	15	32	21	15	16	15	15	24	21	62	17	7	339	550	889
400 - 499	46	24	26	18	24	19	11	14	12	6	15	12	50	17	1	295	538	833
500 - 699	103	88	49	33	48	24	15	15	13	15	8	11	39	22	12	495	1,064	1,559
700 - 999	148	116	77	48	46	21	13	14	11	9	8	6	27	9	13	566	1,509	2,075
1,000 - 1,999	152	96	80	39	50	16	19	12	10	3	5	..	9	1	5	619	1,674	2,103
1,400 - 1,999	168	86	50	24	37	24	6	4	6	3	3	2	6	2	8	429	1,642	2,103
2,000 - 4,999	286	129	68	39	32	20	13	2	5	5	5	..	9	1	5	619	2,642	3,261
5,000 and over	109	42	20	10	9	4	4	2	1	..	..	1	2	2	2	209	1,401	1,609
TOTAL	1,604	944	641	411	567	411	374	321	251	220	207	151	399	100	58	6,659	22,376	29,035

(a) For definition, see end of table on page 30

TABLE 26. - HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE (a) HERD : NUMBER OF HOLDINGS, 31 MARCH 1970 - CONTD

Area of holding (acres)	Size of milk cattle herd (number)														Holdings with no milk cattle	Total all holdings		
	1-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199			200 & over	Total
WESTERN AUSTRALIA																		
1 - 19	34	8	2	..	1	..	..	..	..	..	..	..	..	1	..	46	2,512	2,558
20 - 29	17	6	1	2	..	..	..	..	..	..	..	..	..	..	..	26	526	552
30 - 49	14	3	3	1	5	..	..	..	..	..	..	..	..	..	..	26	525	551
50 - 69	5	3	3	2	4	1	2	1	..	..	..	..	..	..	..	21	305	326
70 - 99	19	2	3	2	5	4	4	2	2	2	..	1	1	..	49	309	358	
100 - 149	17	3	4	5	11	15	11	10	11	6	7	3	8	4	..	115	526	641
150 - 199	16	3	7	3	11	13	14	15	13	16	13	10	10	1	1	146	410	556
200 - 299	32	5	4	3	15	16	23	29	37	34	25	29	58	12	2	324	639	963
300 - 399	20	6	..	7	4	17	15	26	19	25	27	11	70	27	11	285	524	809
400 - 499	12	3	1	..	4	9	12	12	16	11	13	15	65	18	13	204	468	672
500 - 699	20	2	3	3	8	1	13	18	16	15	16	17	65	42	51	290	774	1,064
700 - 999	51	4	1	4	4	3	5	2	10	7	2	9	32	35	40	209	936	1,145
1,000 - 1,399	28	4	3	4	3	4	5	5	6	6	7	1	15	9	18	118	1,310	1,428
1,400 - 1,999	73	13	2	3	2	2	4	2	1	1	4	1	8	4	20	140	1,768	1,908
2,000 - 4,999	209	15	10	3	8	7	1	1	1	1	3	1	2	5	14	281	6,652	6,933
5,000 and over	81	9	5	3	..	1	1	..	..	..	1	..	3	..	3	107	2,366	2,473
TOTAL	648	89	52	45	85	93	110	123	132	124	120	97	337	159	173	2,387	20,550	22,937
TASMANIA																		
1 - 19	81	50	17	..	4	..	..	..	..	..	..	..	..	..	..	152	949	1,101
20 - 29	38	25	16	7	4	..	..	..	..	..	..	..	..	..	..	90	348	438
30 - 49	53	42	19	27	22	9	3	..	..	..	..	..	..	..	..	175	458	633
50 - 69	35	25	31	21	42	34	15	4	1	1	..	..	..	..	..	209	399	608
70 - 99	54	19	24	22	55	54	48	31	19	5	2	1	..	..	..	334	455	789
100 - 149	33	24	28	30	52	89	73	83	72	44	33	18	19	1	..	599	613	1,212
150 - 199	26	17	16	20	35	46	47	56	64	59	49	37	47	3	1	523	388	911
200 - 299	39	26	20	21	47	38	50	56	42	67	69	53	157	24	4	713	566	1,279
300 - 399	26	13	13	9	20	22	20	22	34	22	29	25	88	41	11	395	302	697
400 - 499	18	8	2	4	7	11	13	12	15	14	11	14	46	15	10	200	239	439
500 - 699	21	6	3	1	9	11	9	9	11	18	10	13	56	29	20	226	300	526
700 - 999	16	9	5	3	10	9	5	4	6	9	8	7	30	23	22	166	262	428
1,000 - 1,399	10	4	..	5	4	5	3	1	4	3	4	3	13	13	8	80	222	302
1,400 - 1,999	13	4	..	..	1	2	..	1	1	1	2	1	9	4	9	48	159	207
2,000 - 4,999	12	4	2	1	7	3	2	3	1	..	1	2	7	2	10	57	310	367
5,000 and over	12	1	2	..	1	1	1	..	..	..	..	..	2	1	5	29	193	222
TOTAL	487	277	198	171	320	334	289	282	270	243	218	174	477	156	100	3,996	6,163	10,159

(a) For definition, see end of table on page 30

TABLE 26. - HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE (a) HERD : NUMBER OF HOLDINGS, 31 MARCH 1970 - CONTD

Area of Holding (acres)	Size of milk cattle herd (numbers)														Holdings with no milk cattle	Total all holdings		
	1-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199			200 & over	Total
AUSTRALIA (b)																		
1 - 19	1,041	449	214	74	65	16	9	3	..	2	..	1	1	1	..	1,876	25,949	27,825
20 - 29	428	230	148	106	115	33	19	6	..	1	2	..	1	..	..	1,091	8,309	9,400
30 - 49	497	244	181	187	279	184	131	65	43	16	7	7	6	..	3	1,850	10,127	11,977
50 - 69	328	159	131	127	269	291	230	148	97	81	56	33	45	1	2	1,998	6,675	8,673
70 - 99	420	144	150	133	362	414	477	419	348	262	211	161	350	8	1	3,860	7,591	11,451
100 - 149	551	170	159	140	355	499	606	765	802	691	648	535	1,347	157	17	7,442	9,858	17,300
150 - 199	440	135	109	103	272	380	473	557	591	610	579	588	1,765	372	48	7,022	7,369	14,391
200 - 299	614	166	134	113	295	361	526	594	660	718	745	679	2,374	776	244	8,999	9,970	18,969
300 - 399	472	133	106	96	193	244	331	359	461	421	455	401	1,483	691	316	6,162	8,594	14,756
400 - 499	395	106	93	60	127	118	149	175	243	243	245	234	876	335	265	3,664	6,857	10,521
500 - 699	802	234	153	114	183	159	151	186	228	274	252	250	939	464	427	4,818	12,872	17,690
700 - 999	813	280	190	114	143	109	83	113	132	139	127	145	517	292	312	3,509	13,379	16,888
1,000 - 1,999	796	243	168	85	112	65	77	63	75	83	89	78	311	136	165	2,546	14,130	16,676
1,400 - 1,999	714	197	107	50	81	48	26	45	39	33	41	26	134	63	116	1,720	12,187	13,907
2,000 - 4,999	1,097	229	121	70	84	69	40	32	28	31	29	19	96	54	89	2,088	22,841	24,929
5,000 and over	594	89	46	17	20	13	13	7	10	3	4	6	26	16	27	891	15,637	16,528
TOTAL	10,002	3,208	2,210	1,589	2,955	3,003	3,341	3,537	3,759	3,608	3,490	3,163	10,271	3,368	2,032	59,536	192,345	251,881

(a) Herds comprising dairy-breed bulls used (or intended) for service, dairy-breed bull calves (except in New South Wales and Tasmania) intended for service and/or cows, heifers, and heifer calves used (or intended) for the production of milk or cream for sale. In New South Wales most of the herds classified to the size group 1-4 comprise a single dairy-breed bull which is being run with cows kept for own milk supply and/or cows used to raise vealers. (b) Includes particulars for the Northern Territory and Australian Capital Territory.

TABLE 27. - HOLDINGS CLASSIFIED ACCORDING TO SIZE OF MILK CATTLE HERD (a) : NUMBER OF HOLDINGS, 31 MARCH

State	Size of milk cattle herd (numbers)															Holdings with no milk cattle	Total all Holdings	
	1-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-149	150-199	200 & over			Total
1969																		
N.S.W.	2,340	113	111	108	342	501	774	917	1,006	951	989	811	2,181	589	387	12,170	63,933	76,103
Vic.	4,066	1,950	1,199	839	1,271	1,155	1,167	1,281	1,304	1,518	1,507	1,511	5,471	1,774	968	27,061	43,995	71,956
Qld	1,585	306	304	287	768	1,113	1,233	1,255	1,061	884	658	452	883	160	68	11,037	33,021	44,058
S.A.	1,767	1,094	723	443	599	490	397	332	252	226	187	167	356	78	40	7,159	21,978	29,137
T.A.	594	42	35	33	71	100	111	129	167	128	121	109	339	158	162	2,299	20,705	23,004
Tas.	624	350	242	217	338	374	315	314	310	239	217	168	471	146	88	4,413	5,971	10,384
N.T.	8	..	3	..	1	1	1	..	..	1	..	..	2	..	..	17	300	317
A.C.T.	11	1	3	3	1	2	..	1	1	..	2	..	..	1	5	32	161	195
AUST.	10,995	3,056	2,620	1,930	3,411	3,736	3,998	4,229	4,221	3,958	3,679	3,220	9,703	2,906	1,726	64,188	190,082	254,270
1970																		
N.S.W.	2,037	93	89	84	247	423	658	804	936	876	827	731	2,064	588	406	10,863	65,045	75,908
Vic.	3,871	1,580	1,027	672	1,134	970	983	1,080	1,170	1,255	1,379	1,391	5,556	2,053	1,133	25,254	44,244	69,498
Qld	1,339	225	201	205	599	772	927	926	999	889	736	619	1,437	312	156	10,342	31,487	41,829
S.A.	1,604	944	641	411	567	411	374	321	251	220	207	151	399	100	58	6,659	21,376	28,035
T.A.	648	89	52	45	85	93	110	123	132	124	120	97	337	159	173	2,387	20,550	22,937
Tas.	487	277	198	171	320	334	289	282	270	243	218	174	477	156	100	3,996	6,163	10,159
N.T.	7	..	1	1	1	..	..	1	1	1	2	..	1	..	1	17	305	322
A.C.T.	9	..	1	..	2	..	..	..	..	..	1	..	..	..	5	18	175	193
AUST.	10,002	3,208	2,210	1,589	2,955	3,003	3,341	3,537	3,759	3,608	3,490	3,163	10,271	3,368	2,032	59,536	192,345	251,881

(a) Herds comprising dairy-breed bulls used (or intended) for service, dairy-breed bull calves (except in New South Wales and Tasmania) intended for service and/or cows, heifers, and heifer calves used (or intended) for the production of milk or cream for sale. In New South Wales most of the herds classified to the size group 1-4 comprise a single dairy-breed bull which is being run with cows kept for own milk supply and/or cows used to raise vealers.

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA. A.C.T. 2600

1 JUNE 1971

J. F. O'NEILL
ACTING COMMONWEALTH STATISTICIAN

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 490211 extension 302 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.