

A
COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA,
AUSTRALIA.

MANUFACTURING INDUSTRIES.
1956-57.

No. 21. BUTTER, CHEESE AND CONDENSED,
CONCENTRATED, ETC., MILK.

PREPARED UNDER INSTRUCTIONS FROM
THE RIGHT HONORABLE THE TREASURER,

BY

S. R. CARVER,
COMMONWEALTH STATISTICIAN.

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P R E F A C E

1. GENERAL: The Bulletins in the series for 1956-57 are listed on the back of the cover of this Bulletin and include, for the first time, one - No. 34 - dealing with "Leather Goods (including Saddlery and Belting)".

Where a number of industries are combined in one Bulletin the introductory paragraph on Page 3 specifies the industries so included.

2. CLASSIFICATION OF FACTORIES: For purposes of industry classification, factories in Australia are classified according to the nature of their product. Where two or more distinct types of industrial activity are carried on in one establishment, a separate return is obtained, wherever practicable, for each activity in order to allow classification on this basis. In cases where this is not practicable, factories are classified according to predominant activity and these cases are encountered most frequently in the Metal Trades, (e.g. General Engineering firms also producing Agricultural Implements or Stoves, etc.), and to a lesser degree in factories concerned with Skins, Leather, Clothing and Wood products.

Each of the summaries in the "Manufacturing Industries" series relates, generally, to the operations of factories classified to the industry specified. Figures shown in the quantity tables herein represent total recorded production of the articles listed and include quantities produced, as subsidiary production, in industries otherwise classified.

3. BASIS OF THE STATISTICS: The scope of the factory statistics is fully explained in the annual Secondary Industries Bulletin.

Briefly, a "factory" is defined as an establishment in which four or more persons are employed or where power (other than manual) is used in any manufacturing process. It should be noted that details relating to small establishments not classified for statistical purposes as factories are not included in the figures shown herein.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers, collectors, carters engaged solely on outward delivery of manufactured goods, and retailing storemen. The figures, however, do include proprietors who work in their own businesses as well as "out-workers".

The value of materials used includes the value, in the usual sense, of the materials used, stores used, containers, tools replaced and materials used in repairs to plant. In general, it does not include the value of customers' articles or materials repaired, assembled or treated by the factory.

The value of output is the selling value, at the factory, (exclusive of all delivery costs and charges and excise duties, but inclusive of bounty and subsidy payments to the manufacturer of the finished article) of all goods made during the year. In addition it includes the value of other work done, such as repair work, assembling and making-up for customers.

The value of production is the value added to raw materials by the process of manufacture. It is calculated by deducting from the value of factory output the value (at the factory) of the materials used, containers and packing, power, fuel and light used, tools replaced and materials used in repairs to plant (but not depreciation charges). The value of production is the source from which such items as wages, interest, depreciation, profits, taxation, advertising and other sundry charges are met. As full details of costs of production are not collected, the amount of profit resulting from factory operations cannot be ascertained from the figures contained herein.

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COMMONWEALTH STATISTICIAN

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MANUFACTURING INDUSTRIES, AUSTRALIA : 1956-57
BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC. MILK

1. **SUMMARY OF STATISTICS:** The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Butter, Cheese and Condensed, Concentrated, etc. Milk, for the years 1938-39, 1945-46 and 1954-55 to 1956-57.

TABLE 1 : BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC. MILK FACTORIES : AUSTRALIA

Year	Factories (1)	Persons Employed (a) (2)	Salaries and Wages Paid (b) (3)	Power, Fuel and Light etc. used (c) (4)	Value of Materials etc. used (d) (5)	Value of Pro- duction (e) (6)	Value of Output (f) (7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1938-39	523	6,851	1,570	390	29,162	3,543	33,095
1945-46	462	8,896	2,737	756	34,991	5,024	40,771
1954-55	379	10,567	8,680	2,423	100,706	15,394	118,523
1955-56	375	11,119	9,568	2,741	106,883	18,893	128,517
1956-57	371	11,189	10,068	2,797	101,517	19,265	123,579

(a) Average over whole year; includes Working Proprietors.

(b) Excludes amounts drawn by Working Proprietors.

(c) Includes Water and Lubricating Oil.

(d) Includes also value of containers, packing, etc., replacements of tools and repairs to plant.

(e) Value of Production equals column (7) less total of columns (4) and (5).

(f) Value of goods produced.

In the following table, particulars are given for each State during the year 1956-57.

TABLE 2 : BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC. MILK FACTORIES : STATES

1956-57

Particulars	N.S.W.	Vic.	Q'ld.	S.A.	W.A.	Tas.	Aust.
	No.	No.	No.	No.	No.	No.	No.
Factories	75	131	83	42	18	22	371
Persons employed -							
Males	2,057	4,825	1,456	701	260	305	9,604
Females	339	795	213	118	52	68	1,585
Total	2,396	5,620	1,669	819	312	373	11,189
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages paid	2,178	5,381	1,288	630	249	342	10,068
Value of -							
Power, Fuel and Light, etc. used	659	1,598	279	117	70	74	2,797
Materials, etc. used	16,211	51,561	20,668	5,211	3,425	4,441	101,517
Production	3,746	10,567	2,467	1,118	530	837	19,265
Output	20,616	63,726	23,414	6,446	4,025	5,352	123,579
Land and Buildings (a)	3,175	5,836	1,689	729	225	331	11,985
Plant and Machinery (a)	3,695	7,031	2,519	721	367	298	14,631
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	29,965	40,031	25,001	8,297	2,393	2,470	108,157

(a) Depreciated or book values at end of year.

See also notes to Table 1 above.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION: Particulars of the average salary and wage paid, together with the average value of output and production per person engaged and the ratio of salaries and wages to the value of production are shown in the following table for the years 1938-39, 1945-46 and 1954-55 to 1956-57.

**TABLE 3 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES :
AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE : AUSTRALIA**

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged (b)	Value of Production per Person Engaged (b)	Ratio of Salaries and Wages to Value of Production
	£.	£.	£.	%
1938-39	231	4,831	517	44.29
1945-46	309	4,583	565	54.48
1954-55	824	11,216	1,457	56.38
1955-56	862	11,558	1,699	50.64
1956-57	902	11,045	1,722	57.45

(a) Excludes Working Proprietors and amounts drawn by them.

(b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED: In the following table, details are given of the quantity and value of milk processed and the principal articles produced therefrom in Butter, Cheese and Condensed, Concentrated, etc. Milk Factories for the year 1956-57.

In the case of a few articles, there is some production in establishments other than those classified for statistical purposes as Butter, Cheese, etc., Factories, and where this occurs, it is indicated by a footnote.

**TABLE 4 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES :
PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED : AUSTRALIA, 1956-57**

Particulars	Quantity	Value
	'000 gals.	£.
Materials Used:		
Whole Milk used in manufacture of -		
Butter (a)	883,128	62,791,964
Cheese	98,024	8,446,514
Condensed, Dried and Other Milk Products (a)(b)	89,178	9,138,304
Total Whole Milk Used	1,070,330	80,376,782
Skim Milk - Derived in own Factory ..	119,215	(c)
Purchased ..	22,578	234,493
Butter Milk	8,350	(c)
	tons	
Salt	3,134	71,129
Sugar	19,110	1,563,430
Cheddar Cheese for manufacture of Processed Cheese, Cheese Pastes and Cheese Spreads (d)	14,320	(c)
Articles Produced:	tons	
Butter	189,841	72,386,485
Cheese (Green Weight) ..	45,171	9,965,330
Condensed Milk (Sweetened and Unsweetened) ..	(a) 49,701	7,575,150
Concentrated - Whole Milk	(a) 15,145	1,278,947
Skim Milk	3,393	72,161
Powdered Full Cream Milk - Spray	16,508	5,233,337
Roller ..	1,356	315,413
Infants' and Invalids' Foods - incl. Malted Milk and Milk Sugar (Lactose) - Milk Based ..	(a) 13,567	4,468,850
Powdered Skim Milk - Spray	23,170	2,322,810
Roller ..	7,397	628,590
Butter Milk and Whey Powder	5,552	330,243
Casein ..	(a) 7,730	1,318,493
Ice Cream Mix - Powder	(a) 515	186,616
Liquid (f)	(a) 4,260	336,355
Processed Cheese, Cheese Paste and Cheese Spreads	15,312	5,693,384

(a) Includes Whole Milk equivalent of cream and butter fat purchased as such.

(b) Includes that used for Ice Cream Mix, etc. in these establishments.

(c) Quantity only available.

(d) This quantity has been included in Cheese (Green Weight) produced - shown below

(e) Includes production in other works.

(f) Excludes Concentrated Whole Milk.

The following table sets out particulars of the quantities and values of Butter and Cheese made in Australia during the years 1938-39, 1945-46 and 1954-55 to 1957-58.

TABLE 5 : BUTTER AND CHEESE MADE : AUSTRALIA

Year	Butter		Cheese (a)	
	Quantity	Value	Quantity	Value
	Tons	£	Tons	£
1938-39	194,783	27,030,555	28,976	2,085,106
1945-46	145,571	24,229,661	40,964	4,211,259
1954-55	188,010	75,282,545	45,178	10,222,496
1955-56	205,791	80,830,421	38,681	9,521,085
1956-57	189,841	72,386,485	45,171	9,965,330
1957-58(b)	172,658	(c)	34,847	(c)

- (a) Cheddar cheese, including that used for the manufacture of processed cheese.
 (b) Subject to revision.
 (c) Not yet available.

The output of Condensed, Powdered, etc. Milk products during the years 1938-39, 1945-46 and 1954-55 to 1957-58 is shown in the following table:-

TABLE 6 : PRODUCTION OF CONDENSED, CONCENTRATED, ETC. MILK : AUSTRALIA
(Tons)

Year	Condensed Milk (Sweetened and Un-sweetened)	Concen- trated Whole Milk	Powdered Milk				Butter- milk and Whey Powder	Infants and Invalids' Foods (incl. Malted Milk and Milk Sugar)
			Full Cream		Skim			
			Spray	Roller	Spray	Roller		
1938-39	15,519	(a) 1,659	10,712	(b)	(b)	(b)	(a) 556	(a) 1,259
1945-46	42,997	9,138	11,839	2,663	1,440	703	1,636	8,851
1954-55	38,493	10,071	14,230	1,309	17,031	7,587	5,086	10,920
1955-56	44,360	13,856	16,481	730	21,362	9,530	4,990	12,861
1956-57	49,701	15,145	16,508	1,356	23,170	7,397	5,552	13,567
1957-58 (c)	47,025	20,016	16,936	1,153	19,720	4,329	5,513	13,937

- (a) Incomplete.
 (b) Not available, included in Full Cream Spray.
 (c) Subject to revision.

4. **EMPLOYMENT:** The number of employees shown in Tables 1, 2 and 8 has been adjusted to show the average employment over the whole year in those cases where short time was worked. In the following Table, the factories have been classified for the years 1938-39, 1945-46 and 1954-55 to 1956-57 according to the average number employed during the actual period worked.

**TABLE 7 : BUTTER, CHEESE AND CONDENSED, ETC. MILK : FACTORIES CLASSIFIED
ACCORDING TO PERSONS EMPLOYED : AUSTRALIA**

Number of Persons employed in each Factory	1938-39		1945-46		1954-55		1955-56		1956-57	
	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed
Under 4	108	241	64	139	37	76	30	58	31	65
4	42	168	30	120	14	56	17	68	11	44
5 to 10	181	1,288	141	1,023	89	653	85	634	91	682
11 to 20	116	1,648	138	2,013	105	1,574	105	1,592	103	1,593
21 to 50	62	1,902	60	1,843	88	2,729	88	2,753	85	2,666
51 to 100	10	697	18	1,289	33	2,442	34	2,554	34	2,667
101 to 200	)	4	7	963	7	1,020	9	1,200	10	1,344
201 and over			4	1,551	6	2,072	7	2,332	6	2,158
TOTAL:	523	6,889	462	8,941	379	10,622	375	11,191	371	11,219
Average Number Employed per Factory	13		19		28		30		30	

In Table 8, the numbers of males and females employed are shown for the years 1938-39, 1955-56 and 1956-57, according to the nature of their employment, but because of the change in classification of occupational status adopted in 1945-46, comparison between 1938-39 and the later years shown is not possible.

TABLE 8 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES, PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1955-56	1956-57	1938-39	1955-56	1956-57
Working Proprietors ..	66	17	18	2	2	3
Managerial and Clerical Staff, incl. Salaried Managers and Working Directors	5,496	920	928	841	826	821
Chemists, Draftsmen and other Laboratory and Research Staff..		193	200		79	86
Foremen and Overseers ..		448	468		7	6
Workers in Factory (Skilled and Unskilled)		7,278	7,220		662	669
Other (incl. Carters, Messengers, etc.)	445	687	770	1	-	-
TOTAL:	6,007	9,543	9,604	844	1,576	1,585

In the following table, the numbers of persons employed in June for the years 1939, 1946 and 1955 to 1957 are shown according to age and sex distribution.

**TABLE 9 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES, DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX : AUSTRALIA
(Excluding Working Proprietors)**

June	Under 16 years	16 years	17 years	18 years	19 years	20 years	Total 16 to 20 years	21 years and over	Total All Ages
MALES									
1939 (a)	119	(b)	(b)	(b)	(b)	(b)	826	4,658	5,603
1946 (a)	91	121	163	169	171	148	772	6,387	7,250
1955 (c)	94	124	142	170	150	106	692	7,819	8,605
1956 (c)	90	124	162	166	192	156	800	8,119	9,009
1957 (c)	62	142	150	168	185	193	838	8,017	8,917
FEMALES									
1939 (a)	38	(b)	(b)	(b)	(b)	(b)	335	415	788
1946 (a)	52	100	116	119	141	111	587	743	1,382
1955 (c)	58	121	132	161	113	84	611	713	1,382
1956 (c)	78	117	133	161	143	92	646	816	1,540
1957 (c)	73	128	149	145	124	118	664	755	1,492

(a) Pay-day nearest 15th June. (b) Details not collected. (c) Last pay-day in June.

5. **POWER EQUIPMENT:** Statistics of the power equipment installed are given in the next table. The details include the rated horse-power of engines ordinarily in use, together with those in reserve or idle.

TABLE 10 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES, TYPES AND RATED HORSEPOWER OF ENGINES : AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1955-56	1956-57	1938-39	1955-56	1956-57
Steam - Reciprocating ..	6,638	6,231	5,911	2,972	1,954	1,927
Turbine ..	1,080	1,319	1,429	66	838	838
Internal Combustion -						
Gas ..	3,832	2,101	1,879	801	98	90
Petrol or Other Light Oils ..	1,096	840	938	206	1,520	1,489
Heavy Oils ..	16,238	9,998	7,245	1,521	3,755	6,623
Water ..	40	-	-	-	-	-
Total Prime Movers: ..	28,924	20,489	17,402	5,566	8,165	10,967
Motors driven by electricity -						
Purchased ..	16,135	81,693	90,755	1,220	7,910	8,728
Own Generation ..	(a) 8,382	(a) 5,336	(a) 5,766	540	657	415
Total Electricity: ..	24,517	87,029	96,521	1,760	8,567	9,143
TOTAL POWER EMPLOYED: ..	45,059	102,182	108,157	7,326	16,732	20,110

(a) These motors are driven by electricity generated by Prime Movers, and to avoid duplication are excluded from Statistics of total power employed.

6. MACHINE EQUIPMENT: Particulars of the principal machine equipment installed in Australia for the years 1955-56 and 1956-57 are shown in the following table.

TABLE 11 : MACHINE EQUIPMENT IN BUTTER, CHEESE AND CONDENSED, ETC., MILK FACTORIES, AUSTRALIA
(Number)

Type of Machinery	1955-56	1956-57
Separators	132	139
Churns	127	145
Butterworkers	30	24
Combined Churns and Butterworkers	335	311
Cheese Presses	612	616
TOTAL:	1,236	1,235

7. POWER, FUEL AND LIGHT, ETC. USED: Details of the quantities and values of the various items of power, fuel and light, etc. used are shown in the following table:-

TABLE 12 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES
POWER, FUEL AND LIGHT, ETC. USED, AUSTRALIA

Particulars	Unit of Q'ty.	Quantity			Value (£)		
		1938-39	1955-56	1956-57	1938-39	1955-56	1956-57
Power, Fuel and Light -							
Coal - Black ..	ton	35,416	115,578	89,504	41,893	570,673	459,407
Brown ..	"	29,224	157,248	171,762	35,890	392,197	433,782
Brown Coal Briquettes ..	"	(a)	30,723	30,176	(a)	185,903	174,205
Coke ..	"	1,342	158	145	2,017	673	876
Wood ..	"	249,388	207,831	191,366	118,786	326,715	322,086
Fuel Oil ..	'000 gal	1,115	3,527	3,663	51,098	330,867	366,749
Tar (Fuel) ..	"	(b)	-	3	(c)	-	137
Electricity ..	-	(d)	(d)	(d)	88,304	761,246	871,346
Gas ..	-	(d)	(d)	(d)	1,359	882	1,121
Other (Charcoal, etc.) ..	-	(d)	(d)	(d)	6,689	39,988	32,655
Water and Lubricating Oil used ..	-	(d)	(d)	(d)	43,465	132,128	134,645
TOTAL:		(d)	(d)	(d)	389,501	2,741,272	2,797,009

(a) Included with Brown Coal. (b) Not available. (c) Included with "Other (Charcoal, etc.)". (d) Value only available.

8. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book value of premises occupied and plant installed at the 30th June for the years 1938-39, 1945-46 and 1954-55 to 1956-57 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during the same period are also shown. It should be noted that the amounts shown are those recorded by factories which were operating during each year and that changes in their number, as well as other factors, affect comparison from year to year.

TABLE 13 : BUTTER, CHEESE AND CONDENSED, ETC. MILK FACTORIES ;
VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC., AUSTRALIA
£.

Year	Book Values at 30th June (a)		Additions and Replacements made during year		Depreciation allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
1938-39	2,880,323	3,066,840	144,195	363,710	78,298	299,382
1945-46	3,506,020	3,507,366	128,602	560,885	93,845	438,299
1954-55	10,036,826	12,553,149	790,779	2,124,131	219,090	1,310,505
1955-56	11,188,430	13,923,257	1,070,551	2,328,722	219,546	1,373,474
1956-57	11,985,105	14,631,151	1,055,713	2,843,401	242,182	1,545,560

(a) Includes estimated value of rented premises and machinery.

9. EXTERNAL TRADE: Details of the exports of Butter, Cheese and Condensed, Concentrated, etc. Milk are given in the following table for the years 1938-39, 1945-46 and 1954-55 to 1956-57.

TABLE 14. EXPORTS OF BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC. MILK (a):
AUSTRALIA

Articles	Unit	1938-39	1945-46	1954-55	1955-56	1956-57
Butter (b)	ton	(a) 102,474	61,992	63,292	83,347	77,399
	£A	12,891,837	12,403,116	24,984,242	29,331,350	26,433,584
Cheese	ton	16,038	14,629	22,118	17,181	17,529
	£A	1,074,008	1,689,124	5,057,968	3,536,868	3,860,717
Milk (Preserved, Condensed, Concentrated)-						
Sweetened ..	ton	5,613	17,804	19,088	23,372	28,230
Unsweetened ..	"	337	4,307	801	1,603	1,309
Milk (Dried or in powdered form)-						
Full Cream ..	"	1,340	2,655	6,547	6,754	6,816
Skim ..	"	257	487	18,211	22,680	20,276
Malted Milk ..	"	252	917	2,357	2,459	2,718
Infants' and Invalids' Foods -						
Essentially of Milk	"	731	1,236	1,199	1,606	3,295
Other, n.e.i.	"	-	403	2,353	2,845	3,235

(a) Excludes Ships' Stores.

(b) Includes Ghee and Tropical Spread expressed as Butter.

(c) Includes Dry Butter Fat expressed as Butter.

NOTE: - Values are expressed in £A f.o.b. port of shipment.

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COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS,

CANBERRA. A.C.T.

6TH NOVEMBER, 1956

LIST OF INDUSTRIES INCLUDED IN THE SERIES.

- No. 1. CEMENT AND CEMENT GOODS.
- .. 2. BRICKS, TILES, POTTERY AND EARTHENWARE.
- .. 3. CHEMICALS, DRUGS AND MEDICINES.
- .. 4. WHITE LEAD, PAINTS AND VARNISH.
- .. 5. CHEMICAL FERTILIZERS.
- .. 6. SOAP AND CANDLES.
- .. 7. BASIC METAL INDUSTRIES.
- .. 8. METAL FABRICATING INDUSTRIES.
- .. 9. MOTOR VEHICLES AND CYCLES.
- .. 10. COTTON MILLS.
- .. 11. WOOLLEN MILLS.
- .. 12. ROPE AND CORDAGE.
- .. 13. TANNERIES.
- .. 14. BOOTS AND SHOES.
- .. 15. CLOTHING (INCLUDING HOSIERY AND KNITTED GOODS).
- .. 16. FLOUR AND OTHER GRAIN MILLS.
- .. 17. BISCUITS.
- .. 18. CONFECTIONERY.
- .. 19. JAM, FRUIT, VEGETABLES, PICKLES, SAUCES, CONDIMENTS, ETC.
- .. 20. BACON CURING.
- .. 21. BUTTER, CHEESE AND CONDENSED, CONCENTRATED, ETC., MILK.
- .. 22. AERATED WATERS AND CORDIALS.
- .. 23. MEAT AND FISH PRESERVING.
- .. 24. BREWERIES.
- .. 25. WINERIES AND DISTILLERIES.
- .. 26. TOBACCO, CIGARS AND CIGARETTES.
- .. 27. SAWMILLING.
- .. 28. PULP AND PAPER MAKING.
- .. 29. RUBBER WORKS.
- .. 30. BROOMS AND BRUSHES.
- .. 31. ELECTRIC LIGHT AND POWER WORKS.
- .. 32. GAS WORKS.
- .. 33. PLASTIC MOULDING AND PRODUCTS.
- .. 34. LEATHER GOODS (INCLUDING SADDLERY AND BELTING).