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BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 8

Trade G

MILK PRODUCTS



*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
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LIST OF TABLES

Table No.	Title	Page
1	Summary: Larger establishments	8/G/2
2	Summary: Small firms	8/G/3
3	Estimated average employment: All firms	8/G/3
4	Analysis by size, 1951: Larger establishments in the United Kingdom	8/G/3
5	Analysis by standard region, 1951: Larger establishments in the United Kingdom	8/G/4
6	Analysis according to specialisation within the trade, 1951: Larger establishments in the United Kingdom	8/G/4
7	Total make of intermediate products: Larger establishments	8/G/5
8 or 8(i)	Sales of the principal products of the trade, including sales of these products by establishments classified to other trades: Larger establishments	8/G/5
8(ii)	Total sales by small firms in Great Britain	*
9	Sales of principal products of the trade by establishments classified to other trades: Larger establishments	8/G/7
10	Sales in the trade of other than principal products: Larger establishments	8/G/7
11	Production, exports and imports of certain principal products	8/G/8
12	Usage of certain specified purchased materials, 1951: Larger establishments in the United Kingdom	8/G/8
13	Employment in September: Larger establishments	8/G/9
14	Average employment: Larger establishments	8/G/10
15	Shift working, 1951: Larger establishments in Great Britain	8/G/10
16	Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments	8/G/11
17	Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work: Larger establishments	8/G/11
<u>Country tables, 1951</u>		
18	Summary: Larger establishments	8/G/12
19	Summary: Small firms in Great Britain	8/G/12
20 or 20(i)	Sales in the trade: Larger establishments	8/G/13
20(ii)	Sales in the trade: Small firms	*
21	Stocks of products on hand for sale and work in progress, and stocks of materials and fuel: Larger establishments	8/G/15
22	Employment in September: Larger establishments	8/G/15
23 or 23(i)	Average employment: Larger establishments	8/G/16
23(ii)	Average employment: Small firms	*
24	Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments	8/G/17
25	Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work: Larger establishments	8/G/17
26	Payments for transport services for finished goods sold and materials and fuel purchased: Larger establishments	8/G/18

* Not applicable to this trade

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42
[HA 257]

MILK PRODUCTS TRADE

THIS REPORT on the Milk Products Trade relates to establishments engaged wholly or mainly in the manufacture of butter, cheese, condensed milk, evaporated milk, dried milk, etc., including infants' and invalids' foods with a milk base, and in sterilising (pasteurising), cooling and bottling milk. Milk bottling by retailers who do not maintain a central bottling or pasteurising depot is excluded.

The gross output shown in Table 1 for 1937 and 1935 excludes the output of establishments wholly or mainly engaged in the processing and distribution of whole milk.

For the year 1950, Census of Production returns were required, in Great Britain, only from establishments that sold no merchanted goods nor undertook retailing during the year; other establishments (i.e., those which engaged in merchanting or retailing as well as production) made returns in the Census of Distribution only. Information for 1950 comparable to that for any other year in this trade is, therefore, not available.

This trade corresponds to minimum list heading 154 (1) in the Standard Industrial Classification.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

MILK PRODUCTS TRADE

Summary

Larger establishments (a)

TABLE 1

	United Kingdom		Great Britain		United Kingdom	
	1951	1949	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	290,150	242,938	235,935	211,506	25,155	20,193
Milk subsidy	28,023	24,692	22,192	21,889	-	-
Transport subsidy	2,345	1,635	1,635	-	-	-
Cost of materials and fuel used (c)	279,593	240,686	232,147	207,914	19,923	15,353
Payment for work done on materials given out	102	94	84	62	1	8
Transport payments (d)	6,242	..	..	..	..	..
Net output	34,582	28,485	27,531	25,419	5,231	4,832
Wages and salaries of persons employed	18,124	15,258	14,683	13,073	..	..
Average number of persons employed (e)	No. 52,295	No. 49,564	No. 47,330	No. 44,862	No. 12,380	No. 11,658
Net output per person employed (e)	£ 661	£ 575	£ 582	£ 567	£ 423	£ 415
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	1,737	1,373	1,199	872	..	..
Materials and fuel	6,096	3,370	3,123	2,743	..	..
Number of establishments	No. 657	No. 650	No. 614	No. 581	No. ..	No. 171

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (f)						
Principal products (g)	287,573	245,065	238,201	212,853	24,826	20,008
Other output (h)	2,469					
Changes in stocks and work in progress (i)	+ 107	+ 449	+ 304	+ 217		
	290,150	245,514	238,505	214,114	25,155	20,193
Less payment for transport outwards (d)	..	2,576	2,570	2,608		
Gross output (production)	290,150	242,938	235,935	211,506	25,155	20,193
Materials and fuel used by firms in this trade						
Purchases	281,119	241,020	232,491	208,126	19,923	15,353
Changes in stocks (i)	- 1,526	- 334	- 344	- 212		
Materials and fuel used	279,593	240,686	232,147	207,914	19,923	15,353

(a) For small firms' summary see Table 2.

(b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(c) Amounts paid for delivery services are excluded for 1951 but included for other years.

(d) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(e) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(f) Total value of sales (1951, 1949 and 1948) or production for sale (1937 and 1935).

(g) For details for 1951 and 1948 see Table 8.

(h) For details for 1951 and 1948 see Table 10.

(i) For details for 1951 see Table 21.

Summary

Small firms (a)

TABLE 2

	Great Britain	United Kingdom	Great Britain	
	1951	1949	1949	1948
Number of returns	195	193	178	178
Average number of persons employed (b)				
Males	927	829	774	765
Females	353	299	284	285
Total	1,280	1,128	1,058	1,050

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951.

(b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	United Kingdom		Great Britain	
	1951	1949	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	52,295	49,564	47,330	44,862
Employing on the average ten or fewer persons (c)	1,280 (d)	1,128	1,058	1,050
Estimated average employment in firms not making satisfactory returns	53,575	50,692	48,388	45,912
	337	59	59	75
Estimated average employment in all firms	53,912 (d)	50,751	48,447	45,987

(a) Including working proprietors.

(b) See Tables 13 (iv) and 14.

(c) See Table 2.

(d) Excluding any small firms in Northern Ireland.

Analysis by size, 1951

Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	140	19,556	1,840	2,545	647	159	806	723
25 - 49	215	56,116	5,237	7,642	1,990	519	2,509	685
50 - 99	163	75,256	7,865	11,523	3,072	797	3,870	683
100 - 199	90	65,699	7,744	12,505	3,538	772	4,310	619
200 - 299	28	31,980	4,197	6,752	1,935	396	2,331	622
300 - 399	9	11,284	1,870	3,257	1,054	130	1,183	574
400 - 499	6	13,679	1,933	2,818	833	171	1,004	686
500 - 999	3	8,218	1,291	1,994	723	107	830	647
1,000 and over	3	8,362	2,604	3,259	940	341	1,282	799
Total	657	290,150	34,582	52,295	14,732	3,393	18,124	661

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

Region	Estab- lish- ments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percent- age of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England									
Northern	37	16,864	1,699	4.9	2,743	677	137	814	619
East and West Ridings	40	14,399	1,870	5.4	3,108	899	157	1,056	602
North Midland	57	14,545	2,203	6.4	3,634	1,067	147	1,214	606
Eastern	27	11,805	1,208	3.5	1,809	535	97	632	668
London and South Eastern	81	66,957	6,494	18.8	8,096	2,770	708	3,478	802
Southern	48	19,596	2,997	8.6	3,616	942	369	1,311	829
South Western	72	38,045	2,978	8.6	5,704	1,470	384	1,854	522
Midland	67	30,689	5,113	14.8	7,950	2,435	442	2,877	643
North Western	71	28,447	4,533	13.1	6,743	1,861	429	2,290	672
Total England	500	241,348	29,096	84.1	43,403	12,654	2,870	15,524	670
Wales	44	19,584	1,675	4.9	2,871	719	183	901	584
Scotland	76	19,417	2,318	6.7	3,460	790	210	1,000	670
Great Britain	620	280,348	33,089	95.7	49,734	14,163	3,263	17,425	665
Northern Ireland	37	9,802	1,493	4.3	2,561	569	130	699	583
United Kingdom	657	290,150	34,582	100.0	52,295	14,732	3,393	18,124	661

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

TABLE 6

	Estab- lish- ments	Gross output	Sales of charac- teristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Butter	31	14,027	13,248	1,021	1,584	358	112	469	644
Cheese	19	3,574	2,206	1,010	1,113	257	102	359	908
Whole milk (bottled or processed)	563	252,924	238,678	27,783	44,225	12,901	2,420	15,321	628
Condensed milk	8	5,271	4,069	838	1,215	280	101	381	690
Milk powder	6	1,967	1,682	387	577	131	65	196	670
Remainder of the trade	30	12,387		3,543	3,581	806	593	1,398	989
Total	657	290,150		34,582	52,295	14,732	3,393	18,124	661

(a) Administrative, technical and clerical employees.

TABLE 7 - Total make of intermediate products: Larger establishments

The total quantity of tin containers made in 1951 by establishments in this trade, whether for use for packaging of goods, addition to stock or for sale as such to other firms, was 108,600 cwts.

Sales of the principal products of the trade, including sales of these products by establishments classified to other trades

Larger establishments

TABLE 8

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000
Butter					
Unblended, including whey butter	115.9	1,301	84	93.2	710
Blended	1,225.6	13,973	40	833.1	5,197
Total butter	1,341.5	15,274	..	926.3	5,907
Cheese (other than processed cheese)					
Cheddar	417.5	2,320	37	203.4	1,054
Cheshire	304.7	1,612	24	237.1	1,164
Stilton (blue and white)	8.7	197	6	6.4	161
Other varieties	38.8	284	11	20.4	100
Cheese, processed (a)	58.9	1,422	9	-	-
Total cheese	828.6	5,835	..	467.2	2,480
Cream					
Fresh, including pasteurised and clotted cream	846	1,420	181	572	232
Other, including whey cream, sterilised cream and artificial cream, but excluding synthetic cream	10.7	108	31	..	32
Whole milk					
Bottled	913,280	142,357	442	702,024	101,021
Processed or brine cooled, but not bottled	741,274	99,655	496	710,943	87,256
Separated milk	4,335	109	74	..	(b)
Condensed milk, including evaporated milk					
Sweetened					
Whole	596.1	3,364	20	370.0	2,040
Separated or skimmed	437.3	1,611	17	396.2	1,453
Unsweetened	768.0	3,262	11	681.9	2,630
Total condensed milk	1,801.4	8,237	..	1,448.1	6,124

TABLE 8 (contd.)

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.cwts.	£'000	No.	Th.cwts.	£'000
Milk powder (including milk based patent and proprietary foods and food drinks and infants' and invalids' foods, not specifically medicinal, containing not less than 90 per cent. milk powder), whey powder and buttermilk powder					
Not sweetened					
Full cream	380.5	4,272	29	823.5	4,780
Separated or skimmed	96.8	441	31	76.8	454
Other	116.2	539	26	54.1	84(c)
Proprietary foods and food drinks, not elsewhere specified, and malted milk	285.3	4,382	18	87.2	1,550
				..	344
Synthetic cream, including synthetic cream powder	239.7 Th.galls. 2,158	1,445	70	68.0 Th.galls. 1,291	473
	Th.cwts. 95.6	576		..	52.4	289
Lactose	..	668	80	..	481(b)
Other milk products, including casein (a)	..	148	124	..	83
Waste products					
Work done for the Ministry of Food on materials owned by them (d)					
Cheese processing	141.8	252	10		
Other		723	41		489
Work done for the trade or on commission (d)					
Butter blended on commission	1,386.0	445	29	580.1	193
Other work		860	136		561
Total		288,991	..		214,421
Sales in other trades (see Table 9)		1,418	..		1,568
Principal products of this trade sold by establishments in the trade		287,573	641		212,853

(a) So far as recorded separately.

(b) Separated milk is included with 'Other milk products' for 1948.

(c) Including milk powder, sweetened.

(d) Amount charged.

Sales of principal products of the trade by establishments
classified to other trades

Larger establishments

TABLE 9

	United Kingdom 1951			Great Britain 1948	
	Quantity	Value	Entries	Quantity	Value
	Th.cwts.	£'000	No.		£'000
Cheese					
Stilton (blue and white)	0.1	4	..	-	-
Processed	-	2	..	-	-
	Th.Imp. galls.				
Cream, fresh, including pasteurised and clotted cream	1	1	..	-	-
Condensed milk, including evaporated milk, unsweetened				-	-
Milk powder (including milk based patent and proprietary foods and food drinks and infants' and invalids' foods, not specifically medicinal, containing not less than 90 per cent. milk powder), whey powder and buttermilk powder, not sweetened	12.1	34	..	..	983(a)
Proprietary foods and food drinks, not elsewhere specified, and malted milk	..	1,331	10	..	299
				Th.cwts. 14.3 Th.galls. 123	114
Synthetic cream, including synthetic cream powder				..	53
Other milk products, including casein and lactose	-	-	-	..	33
Work done for the Ministry of Food on materials owned by them (b)		33	..		85
Work done for the trade or on commission (b)		13	..		-
Total		1,418	..		1,568

(a) Including whole milk, processed, but not bottled.

(b) Amount charged.

Sales in the trade of other than principal products

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th. galls.	£'000	Th. galls.	£'000
Ice cream				
Water ices	21	11	54	32
Other					..	36
Sold in bulk	217	98		
Prepacked for retail sale				
Choc ices	206	173		
Other	1,116	557		
	Th.cwts.		Th.cwts.	
Ice cream mixes and powders	13.3	138	7.0	70
Other goods	..	1,493	..	844
Work done (a)		-		61
Total		2,469		1,043

(a) Amount charged.

Production, exports and imports of certain principal products (a)

TABLE 11

		Production (b) (c)	Exports	Retained imports
		Th. cwts.	Th. cwts.	Th. cwts.
Condensed milk, including evaporated milk				
Sweetened				
Whole	{ 1951	596.1	190.1	278.0
	1948	370.0	7.9	369.7
	1937	1,674.3	254.0	113.8
Separated or skimmed	{ 1951	437.3	-	128.6
	1948	396.2	1.8	91.2
	1937	1,259.7	7.5	1,243.2
Not sweetened	{ 1951	768.0	-	603.3
	1948	681.9	69.2	146.8
	1937	790.9	60.1	326.9
Milk powder (including milk based patent and proprietary foods and food drinks and infants' and invalids' foods, not specifically medicinal, containing not less than 90 per cent. milk powder), whey powder and buttermilk powder				
Not sweetened				
Full cream	{ 1951	380.5	39.5	129.7
	1948	977.0(d)	6.9	108.9
	1937	138.1	7.6	142.0
Separated or skimmed	{ 1951	96.8	5.9	505.9
	1948	76.8	0.1	215.6
	1937	161.5(e)	0.7	147.5
Lactose	{ 1951	95.6	32.3	44.0
	1948	52.4	0.5	41.3
	1937	..	0.1	9.3

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the Table. The figures, therefore, are not strictly comparable.

(b) Sales in 1951 and 1948, and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) Partly estimated.

(e) Including unclassified milk powder, not sweetened (5,700 cwts.).

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
	Th. cwts.
Sugar	381.4
Aluminium	45.1

Employment in September
Larger establishments (a)

TABLE 13

(i) Operatives

Number

	United Kingdom		Great Britain		United Kingdom	
	1951(b)	1949(b)	1949(b)	1948(c)	1937(c)	1935(c)
Males						
Under 18	2,515	2,727	2,550	2,441	609	652
All ages	36,066	34,492	32,935	31,389	6,487	6,176
Females						
Under 18	924	779	693	681	942	784
All ages	7,839	7,205	6,794	6,495	2,704	2,504
Total						
Under 18	3,439	3,506	3,243	3,122	1,551	1,436
All ages	43,905	41,697	39,729	37,884	9,191	8,680

(ii) Administrative, technical and clerical employees (d)

Number

	United Kingdom		Great Britain		United Kingdom	
	1951	1949	1949	1948	1937	1935
Males						
Under 18	85	103	98	71	166	133
All ages	3,995	3,550	3,378	3,330	1,963	1,935
Females						
Under 18	778	643	618	637	299	202
All ages	4,443	3,874	3,737	3,617	1,226	1,043
Total						
Under 18	863	746	716	708	465	335
All ages	8,438(e)	7,424(e)	7,115(e)	6,947(e)	3,189	2,978

(iii) Total employees

Number

	United Kingdom		Great Britain		United Kingdom	
	1951	1949	1949	1948	1937	1935
Males						
Under 18	2,600	2,830	2,648	2,512	775	785
All ages	40,061	38,042	36,313	34,719	8,450	8,111
Females						
Under 18	1,702	1,422	1,311	1,318	1,241	986
All ages	12,282	11,079	10,531	10,112	3,930	3,547
Total						
Under 18	4,302	4,252	3,959	3,830	2,016	1,771
All ages	52,343(e)	49,121(e)	46,844(e)	44,831(e)	12,380	11,658

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers):-

Canteen workers 34 Males 467 Females
Other workers 1,496 Males 702 Females

(b) In week ended September 22, 1951, and September 24, 1949.

(c) Average for the year.

(d) In week ended September 22, 1951, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(e) Working proprietors. In addition working proprietors, shown in Table 13(iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors

Number

	United Kingdom		Great Britain	
	1951	1949	1949	1948
Males	63	50	30	26
Females	9	9	5	5
Total	72	59	35	31

Average employment
Larger establishments (a)

	United Kingdom		Great Britain		United Kingdom	
	1951	1949	1949	1948	1937	1935
	Operatives	43,874	42,004	40,091	37,884	9,191	8,680
Administrative, technical and clerical employees	8,349	7,501	7,204	6,947 (b)	3,189 (b)	2,978 (b)
Total	52,223	49,505	47,295	44,831	12,380	11,658

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. In 1951 two outworkers were employed in this trade in addition to the employees shown above. No outworkers were recorded in other years.

Shift working, 1951 (a)
Larger establishments in Great Britain

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	13,173	108,184	15
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	9,307	84,363	25
Other shift systems	-	-	-
Total	22,480	192,547	(b)

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	604	39	41,605	5,863	3,351
Percentage of total in trade	100.0	6.5	100.0	14.1	8.1
Percentage of total on returns showing shift-work				100.0	57.2

Wages and salaries and employers' National Insurance contributions paid during the year
Larger establishments

	United Kingdom		Great Britain	
	1951	1949	1949	1948
	Wages and salaries (a) of Operatives	14,732	12,487	12,023	10,712
Administrative, technical and clerical employees	3,393	2,771	2,661	2,361
Total	18,124	15,258	14,683	13,073
Employers' contributions to all National Insurance Schemes	519	483	461	363

(a) Including bonus and commission payments, but excluding a negligible payment to outworkers in 1951.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work.
Larger establishments

	United Kingdom		Great Britain	
	1951	1949	1949	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	3,704	3,111	2,788	2,009
Second-hand	154	159	144	72
Vehicles				
New	773	985	940	716
Second-hand	110	61	60	61
Total acquisitions	4,741	4,316	3,933	2,858
Disposals				
Plant and machinery				
Vehicles	167	173	163	131
	123	87	85	54
Total disposals	290	260	248	185
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,117	797	714	504

FOOD, DRINK AND TOBACCO COUNTRY TABLES

MILK PRODUCTS TRADE

1951

Summary

Larger establishments

TABLE 18

	England	Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	241,348	19,584	19,417	280,348	9,802	290,150
Milk subsidy	19,103	2,989	3,131	25,223	2,800	28,023
Transport subsidy	1,860	367	118	2,345	-	2,345
Cost of materials and fuel used	228,007	20,408	20,131	268,546	11,047	279,593
Payment for work done on materials given out	101	1	-	102	-	102
Transport payments	5,107	855	217	6,179	63	6,242
Net output	29,096	1,675	2,318	33,089	1,493	34,582
Wages and salaries of persons employed	15,524	901	1,000	17,425	699	18,124
	No.	No.	No.	No.	No.	No.
Average number of persons employed (a)	43,403	2,871	3,460	49,734	2,561	52,295
	£	£	£	£	£	£
Net output per person employed (a)	670	584	670	665	583	661
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	(b)	(b)	(b)	1,580	157	1,737
Materials and fuel	4,831	327	355	5,514	582	6,096
	No.	No.	No.	No.	No.	No.
Number of establishments	500	44	76	620	37	657

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade						
Total value of sales (see Table 20)	241,228	19,580	19,403	280,211	9,832	290,043
Changes in stocks and work in progress (see Table 21)	+ 120	+ 3	+ 14	+ 137	- 30	+ 107
Gross output (production)	241,348	19,584	19,417	280,348	9,802	290,150
Materials and fuel used by firms in this trade						
Purchases	229,121	20,532	20,212	269,864	11,255	281,119
Changes in stocks (see Table 21)	- 1,114	- 124	- 80	- 1,318	- 208	- 1,526
Materials and fuel used	228,007	20,408	20,131	268,546	11,047	279,593

(a) Excluding outworkers but including working proprietors.

(b) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

Summary

Small firms in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	176	13	6	195
Average number of persons employed (b)				
Males	856	56	15	927
Females	317	20	16	353
Total	1,173	76	31	1,280

(a) Small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000
Principal products										
Butter										
Unblended, including whey butter	33.6	292	19.6	211	53.2	502	62.7	798	115.9	1,301
Blended	..	(a)	..	(a)	1,225.6	13,973	-	-	1,225.6	13,973
Total butter	..	(a)	..	(a)	1,278.8	14,476	62.7	798	1,341.5	15,274
Cheese (other than processed cheese)										
Cheddar	264.7	1,468(b)	152.8	851	..	..	..	(b)	417.5	2,320
Cheshire	304.7	1,612	-	-	304.7	1,612	-	-	304.7	1,612
Stilton (blue and white)	8.6	194	-	-	8.6	194	-	-	8.6	194
Other varieties	..	(a)	..	(a)	38.8	284	-	-	38.8	284
Cheese, processed (c)	58.8	1,420	-	-	58.8	1,420	-	-	58.8	1,420
Total cheese	..	(a)	..	(a)	..	..	..	(a)	828.5	5,829
Cream										
Fresh, including pasteurized and clotted cream	808	1,358	33	52	841	1,410	4	9	845	1,419
Other, including whey cream, sterilized cream and artificial cream, but excluding synthetic cream	Th.cwts.		Th.cwts.		Th.cwts.		Th.cwts.		Th.cwts.	
	10.0	101	0.7	8	10.7	108	-	-	10.7	108
Whole milk										
Bottled	814,749	127,428	77,898	11,751	892,647	129,180	20,633	3,177	913,280	142,357
Processed or brine cooled but not bottled	710,631	95,579	28,684	3,812	739,316	99,390	1,957	264	741,272	99,655
Separated milk	1,878	58(b)	2,457	51	..	..	..	(b)	4,335	109
Condensed milk, including evaporated milk										
Sweetened										
Whole	..	(a)	..	(a)	..	..	..	(a)	596.1	3,364
Separated or skimmed	..	(a)	..	(a)	..	..	..	(a)	437.3	1,611

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000
Condensed milk, including evaporated milk (contd.)										
Unsweetened										
Milk powder (including milk based patent and proprietary foods and food drinks and infants' and invalids' foods, not specifically medicinal, containing not less than 90 per cent. milk powder), whey powder and buttermilk powder	520.3	2,339	250.0	996	770.4	3,335	198.4	873	968.8	4,208
Not sweetened										
Other than full cream										
Full cream	..	(a)	..	(a)	278.2	2,986	102.2	1,286	380.5	4,272
Proprietary foods and food drinks, not elsewhere specified, and malted milk	..	4,846	..	4	..	4,850	..	892	..	5,742
Synthetic cream, including synthetic cream powder										
Lactose	95.6	576	-	-	95.6	576	-	-	95.6	576
Other milk products, including casein (c)	..	474	..	73	..	547	..	121	..	668
Waste products	..	133	..	6	..	139	..	9	..	148
Work done for the Ministry of Food on materials owned by them (d)		589		79		667		274		942
Work done for the trade or on commission (d)		1,193		51		1,244		48		1,292
Total principal products		258,546		19,321		277,868		9,705		287,573
Other output	Th.galls.				Th.galls.				Th.galls.	
Ice cream										
Water ices	21	11	-	-	21	11	-	-	21	11
Other										
Sold in bulk	..	(a)	..	(a)	..	..	..	(a)	217	98
Prepacked for retail sale										
Choc ices	..	(a)	..	(a)	..	..	..	(a)	206	173
Other	..	(a)	..	(a)	..	..	..	(a)	1,116	557
Ice cream mixes and powders	..	(a)	..	(a)	..	..	..	(a)	Th.cwts. 13.3	138
Other goods	..	1,448	..	28	..	1,477	..	16	..	1,493
Total		260,808		19,403		280,211		9,832		290,043

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(c) So far as recorded separately.

(d) Amount charged.

Stocks of products on hand for sale and work in progress,
and stocks of materials and fuel

Larger establishments

TABLE 21

£'000

		England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Products on hand for sale	{ at beginning of year	1,166	143	1,310	153	1,463
	{ at end of year	1,283	152	1,435	131	1,566
Work in progress	{ at beginning of year	(a)	(a)	134	34	168
	{ at end of year	(a)	(a)	145	26	172
Total products on hand for sale and work in progress	{ at beginning of year	(a)	(a)	1,444	186	1,630
	{ at end of year	(a)	(a)	1,580	157	1,737
Materials and fuel	{ at beginning of year	3,921	275	4,196	374	4,570
	{ at end of year	5,159	355	5,514	582	6,096

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

Employment in September

Larger establishments (a)(b)

TABLE 22

(i) Operatives

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	2,096	192	2,288	227	2,515
All ages	32,284	1,937	34,221	1,845	36,066
Females					
Under 18	768	58	826	98	924
All ages	6,507	877	7,384	455	7,839
Total					
Under 18	2,864	250	3,114	325	3,439
All ages	38,791	2,814	41,605	2,300	43,905

(ii) Administrative, technical and clerical employees

Number

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	78	1	79	6	85
All ages	3,604	208	3,812	183	3,995
Females					
Under 18	691	58	749	29	778
All ages	3,927	354	4,281	162	4,443
Total					
Under 18	769	59	828	35	863
All ages (c)	7,531	562	8,093	345	8,438

(continued overleaf)

TABLE 22 (contd.)

	(iii) Total employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Males						
Under 18	2,174	193	2,367	233	2,600	
All ages	35,888	2,145	38,033	2,028	40,061	
Females						
Under 18	1,459	116	1,575	127	1,702	
All ages	10,434	1,231	11,665	617	12,282	
Total						
Under 18	3,633	309	3,942	360	4,302	
All ages (c)	46,322	3,376	49,698	2,645	52,343	

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

(c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

	(iv) Working proprietors					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Males	29	8	37	26	63	
Females	7	-	7	2	9	
Total	36	8	44	28	72	

	(v) Excluded employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Canteen workers						
Males	33	-	33	1	34	
Females	434	10	444	23	467	
Total	467	10	477	24	501	
Other workers						
Males	1,434	62	1,496	-	1,496	
Females	621	79	700	2	702	
Total	2,055	141	2,196	2	2,198	
Total excluded employees	2,522	151	2,673	26	2,699	

Average employment

Larger establishments (a)

	TABLE 23					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Operatives	38,800	2,887	41,687	2,187	43,874	
Administrative, technical and clerical employees	7,438	565	8,003	346	8,349	
Total	46,238	3,452	49,690	2,533	52,223	

(a) For employment in small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

Outworkers. Two outworkers were employed in addition to the employees shown above.

Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

£'000

	TABLE 24					£'000
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Wages and salaries (a) of						
Operatives	13,373	790	14,163	569	14,732	
Administrative, technical and clerical employees	3,052	210	3,263	130	3,393	
Total	16,425	1,000	17,425	699	18,124	
Employers' contributions to all National Insurance Schemes	461	33	494	25	519	

(a) Including bonus and commission payments but excluding a negligible payment to outworkers.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments

£'000

	TABLE 25					£'000
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom	
Plant, machinery and vehicles						
Acquisitions						
Plant and machinery						
New	3,228	306	3,534	170	3,704	
Second-hand	147	3	150	4	154	
Vehicles						
New	709	31	739	33	773	
Second-hand	105	2	107	3	110	
Total acquisitions	4,189	342	4,531	210	4,741	
Disposals						
Plant and machinery	145	13	158	9	167	
Vehicles	112	8	120	2	123	
Total disposals	257	21	278	12	290	
New building work						
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	997	74	1,071	46	1,117	

Payments for transport services for finished goods
sold and materials and fuel purchased

Larger establishments

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	(a)	(a)	3,930	63	3,993
Amount paid or credited to firms' own separate transport organisations	(a)	(a)	2,249	-	2,249
Total	5,962	217	6,179	63	6,242

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

Wages and salaries include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchant or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed to give these at income tax value.

Output: Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '.' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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