



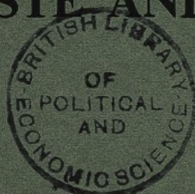
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 2

Trade Q

GLUE, GUM, PASTE AND ALLIED TRADES



*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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* Not applicable to this trade

GLUE, GUM, PASTE AND ALLIED TRADES

THIS REPORT on the Glue, Gum, Paste and Allied Trades relates to establishments engaged wholly or mainly in the manufacture of gelatine, glue, gum, paste, shellac, size, etc., including preliminary processes such as scraping, crushing of bones, and sorting and grinding of gums.

These trades correspond to minimum list heading 39 (4) in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in these trades for 1937 or 1935.

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.

CHEMICALS AND ALLIED TRADES
GLUE, GUM, PASTE AND ALLIED TRADES

Summary
Larger establishments (a)

TABLE 1

	United Kingdom			Great Britain		United Kingdom	
	1951	1950	1949	1949(b)	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (c)	15,676	12,563	10,188	..	10,456	2,954	2,391
Cost of materials and fuel used (d)	9,745	7,748	6,666	..	6,767	1,813	1,377
Payment for work done on materials given out	4	33	10	..	10	1	-
Transport payments (e)	467	..	..	..	..	..	..
Net output	5,460	4,783	3,512	..	3,679	1,140	1,014
Wages and salaries of persons employed	2,304	2,024	1,847	..	1,762	..	..
Average number of persons employed (f)	No. 5,462	No. 5,249	No. 5,080	No. ..	No. 4,991	No. 3,768	No. 3,473
Net output per person employed (f)	£ 1,000	£ 911	£ 691	£ ..	£ 737	£ 303	£ 292
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Products on hand for sale and work in progress	820	757	755	..	655	..	..
Materials and fuel	1,444	1,036	869	..	964	..	..
Number of establishments	No. 64	No. 65	No. 66	No. ..	No. 62	No. ..	No. 53

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

	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (g)							
Principal products (h)	12,632	12,818	10,283	..	8,672	2,111	1,709
Other output (i)	3,007						
Changes in stocks and work in progress (j)	+ 36	- 33	+ 93	..	+ 133		
	15,676	12,785	10,376	..	10,616	2,954	2,391
Less payment for transport outwards (e)	..	222	187	..	161		
Gross output (production)	15,676	12,563	10,188	..	10,456	2,954	2,391
Materials and fuel used by firms in this trade							
Purchases	10,151	7,921	6,546	..	6,854	1,813	1,377
Changes in stocks (j)	- 407	- 173	+ 121	..	- 87		
Materials and fuel used	9,745	7,748	6,666	..	6,767	1,813	1,377

- (a) For small firms' summary see Table 2.
 (b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.
 (c) 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.
 (d) Amounts paid for delivery services are excluded for 1951 but included for other years.
 (e) 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.
 (f) Including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.
 (g) Total value of sales (1951, 1950, 1949, and 1948) or production for sale (1937 and 1935).
 (h) For details for 1951 and 1948 see Table 8.
 (i) For details for 1951 and 1948 see Table 10.
 (j) For details for 1951 see Table 21.

(88354/2)

Summary
Small firms (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	46	38	36	36	37
Average number of persons employed (b)					
Males	204	187	151	151	162
Females	60	61	54	54	51
Total	264	248	205	205	213

- (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 or 1950.
 (b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
As returned by firms					
Employing on the average more than ten persons (b)	5,462	5,249	5,080	(c) 205	4,991
Employing on the average ten or fewer persons (d)	264(e)	248(e)	205		213
Estimated average employment in firms not making satisfactory returns	5,726	5,497	5,285	(c) 11	5,204
Estimated average employment in all firms	6	-	11		-
Estimated average employment in all firms	5,732(e)	5,497(e)	5,296	(c)	5,204

- (a) Including working proprietors.
 (b) See Tables 13 (iv) and 14.
 (c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.
 (d) See Table 2.
 (e) 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	16	1,059	299	292	67	54	122	1,023
25 - 49	18	1,890	689	659	159	127	286	1,045
50 - 99	14	2,418	887	973	226	165	391	912
100 - 199	9	4,015	1,319	1,357	376	218	594	972
200 + 499	7	6,294	2,266	2,181	625	287	912	1,039
Total	64	15,676	5,460	5,462	1,454	851	2,304	1,000

- (a) Administrative, technical and clerical employees.
 (88354/2)

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, Wales and Northern Ireland									
Northern; and Eastern	3	1,457	616	11.3	510	150	60	210	1,208
East and West Ridings	5	947	411	7.5	407	109	52	160	1,009
North Midland	6	1,323	616	11.3	481	114	84	197	1,281
London and South Eastern	16	3,593	1,253	22.9	1,402	331	259	590	894
Southern	3	2,133	538	9.9	359	107	106	213	1,499
South Western; Midland; and Wales	8	2,785	703	12.9	875	270	96	366	804
North Western; and Northern Ireland	20	3,085	1,185	21.7	1,220	316	176	492	972
Total England, Wales and Northern Ireland	61	15,322	5,323	97.5	5,254	1,398	831	2,229	1,013
Scotland	3	353	137	2.5	208	56	20	76	659
United Kingdom	64	15,676	5,460	100.0	5,462	1,454	851	2,304	1,000

(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 Gelatine, glue and size (animal)	32	9,428	7,454	3,607	3,612	1,004	489	1,492	998
Vegetable and other adhesives	23	4,585	3,808	1,283	1,176	272	283	554	1,091
Remainder of the trade	9	1,663		570	674	178	80	258	846
Total	64	15,676		5,460	5,462	1,454	851	2,304	1,000

(a) Administrative, technical and clerical employees.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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. tons	£'000	No.	Th. tons	£'000
Gelatine, glue and size (animal)					
Edible gelatine (including pharmaceutical)	9.4	3,520	20	7.5	2,557
Photographic gelatine	0.8	503	7	0.9	453
Bone glue and size, dried or undried, in terms of commercial dry weight	14.0	1,761	23	12.7	1,557
Hide glue and technical gelatine, dried or undried, in terms of commercial dry weight	12.0	2,149(a)	22	7.4	1,423
Liquid glue, including fish glue	2.9	407	16	1.2	142
Other adhesives					
Casein glue	1.8	303	8	0.9	137
Vegetable adhesives					
Cold water pastes					
Made from starch	6.9	348	17	7.2	386
..	..	83			
Made from flour	5.8	306	8	4.0	155
..	..	..	..	..	77
Cold glues, liquid or powdered	10.4	642	15	6.8	412
Liquid gums	5.4	457	15	2.2	192
Powdered gums and pastes	15.2	1,476	20	9.1	812
Unclassified	-	-	-	1.5	176
Other adhesives (b)	8.1	954	26	3.8	314
..	..	166				..	7
Bleached shellac (c)	0.7	267	..	0.6	236
..	..	75			
Bone by-products	7.6	220	9	18.1	341 (d)
Waste products	..	42	17	..	40
Work done for the trade or on commission (e)		49	5		17
Total		13,729	..		9,434
Sales in other trades (see Table 9)		1,097	..		763
Principal products of this trade sold by establishments in the trade		12,632	62		8,672

(a) Including an amount (quantity unknown) of purchased gelatine sold in blended form.

(b) Including sales of synthetic resin glue, which amounted in 1948 to 2,500 tons, valued at £178,000; corresponding figures for 1951 are not available.

(c) Including some raw and degreased bones.

(e) 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. tons	£'000	No.	Th. tons	£'000
Edible gelatine (including pharmaceutical)	0.5	268	5	0.6	224(a)
Bone glue and size, and hide glue and technical gelatine, dried or undried, in terms of commercial dry weight	0.5	58	5		
Liquid glue, including fish glue and casein glue	0.2	26	..	1.5	109(b)
Vegetable adhesives					
Cold water pastes made from starch or made from flour	2.3	125	..	0.7	65(c)
Liquid cold glues	-	-	-		
Liquid gums and powdered gums and pastes	4.4	331	7	2.7	264(d)
Other adhesives; bleached shellac; and bone by-products	2.1	172	11	2.0	87
	..	42	..	..	7
Total		1,097	..		763

- (a) Including photographic gelatine.
 (b) Including synthetic resin glue.
 (c) Cold water pastes made from starch only.
 (d) Including unclassified vegetable adhesives.

Sales in the trade of other than principal products

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Animal oils, fats and greases				
Unrefined	7.7	790	8.4	501
Refined	3.2	322	1.9	158
Feeding stuffs for animals, poultry, etc.	29.9	612	26.9	372
Fertilisers	23.9	524	..	46
Other goods	..	759	..	370
Work done		-		364
				1(a)
Total		3,007		1,811

(a) Amount charged.

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

TABLE 11

		Production (b)(c)	Exports (d)	Retained imports (e)
		Th. tons	Th. tons	Th. tons
Gelatine, glue and size (animal)				
Edible gelatine (including pharmaceutical)	{ 1951 1948	9.4 7.5	1.3 0.2	2.2 1.2
Photographic gelatine	{ 1951 1948	0.8 0.9	0.1 0.1	- -
Other sorts	{ 1951 1948	28.8(f) 21.3(f)	3.7 1.7	3.7 0.6
Other adhesives	{ 1951 1948	56.7(g) 37.9(g)	2.1(h) 1.6(h)	0.2(h) - (h)
Total gelatine, glue and size and all other adhesives	{ 1951 1948	95.7(f)(g) 67.3(f)(g)	7.3(h) 3.7(h)	6.1(h) 1.9(h)
	{ 1951 1948	75.3 £'000	4.6(h) £'000	7.1(h) £'000
	{ 1951 1948 1937	13,076 8,800 2,324	1,308 699 313	1,566 598 554

- (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) Valued f.o.b.
 (e) Valued c.i.f.
 (f) Commercial dry weight for the bone glue and size, hide glue and technical gelatine included.
 (g) Partly estimated.
 (h) Excluding paste and gum (stationery).

TABLE 12 - Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

No information of usage of materials was required from this trade.

TABLE 13

Employment in September
Larger establishments (a)

	Number						
	United Kingdom			Great Britain		United Kingdom	
	1951(b)	1950(b)	1949(b)	1949(c)	1948(d)	1937(d)	1935(d)
Males							
Under 18	105	107	104	..	130	182	187
All ages	3,254	3,274	3,064	..	2,979	2,333	2,166
Females							
Under 18	68	71	98	..	155	266	219
All ages	785	806	795	..	862	713	669
Total							
Under 18	173	178	202	..	285	448	406
All ages	4,039	4,080	3,859	..	3,841	3,046	2,835

(continued overleaf)

TABLE 13 (contd.)

	(ii) Administrative, technical and clerical employees (e)							Number	
	United Kingdom			Great Britain		United Kingdom			
	1951	1950	1949	1949(c)	1948	1937	1935		
Males									
Under 18	23	34	26	..	26	39	31		
All ages	920	812	778	..	712	524	465		
Females									
Under 18	81	81	61	..	66	36	19		
All ages	491	459	425	..	436	198	173		
Total									
Under 18	104	115	87	..	92	75	50		
All ages	1,411(f)	1,271(f)	1,203(f)	..	1,148(f)	722	638		

	(iii) Total employees							Number	
	United Kingdom			Great Britain		United Kingdom			
	1951	1950	1949	1949(c)	1948	1937	1935		
Males									
Under 18	128	141	130	..	156	221	218		
All ages	4,174	4,086	3,842	..	3,691	2,857	2,631		
Females									
Under 18	149	152	159	..	221	302	238		
All ages	1,276	1,265	1,220	..	1,298	911	842		
Total									
Under 18	277	293	289	..	377	523	456		
All ages	5,450(f)	5,351(f)	5,062(f)	..	4,989(f)	3,768	3,473		

(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 3 Males 34 Females
Other workers 22 Males 13 Females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

(e) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(f) 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	1950	1949	1949	1948		
Males	2	2	2	..	1		
Females	1	1	1	..	1		
Total	3	3	3	..	2		

Average employment
Larger establishments (a)

	Average employment							Number	
	United Kingdom			Great Britain		United Kingdom			
	1951	1950	1949	1949(b)	1948	1937	1935		
Operatives	4,052	3,989	3,885	..	3,841	3,046	2,835		
Administrative, technical and clerical employees	1,407	1,257	1,192	..	1,148(c)	722(c)	638(c)		
Total	5,459	5,246	5,077	..	4,989	3,768	3,473		

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

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

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

Outworkers. No outworkers were recorded in this trade.

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	6,093	48,744	19
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	384	4,616	8
Other shift systems	-	-	-
Total	6,477	53,360	(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	..	25	..	2,829	1,078
Percentage of total in trade	100.0	41.0(c)	100.0	70.0(c)	27.0(c)
Percentage of total on returns showing shift-work				100.0	38.6

(c) Rounded to avoid disclosure.

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

	United Kingdom			Great Britain	
	1951	1950	1949	1949(a)	1948
Wages and salaries (b) of					
Operatives	1,454	1,287	1,193	..	1,185
Administrative, technical and clerical employees	851	738	654	..	577
Total	2,304	2,024	1,847	..	1,762
Employers' contributions to all National Insurance Schemes	55	53	50	..	39

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(b) Including bonus and commission payments.

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

	United Kingdom		Great Britain	
	1951	1949	1949(a)	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	303	403	..	368
Second-hand	14	15	..	10
Vehicles				
New	61	13	..	23
Second-hand	29	3	..	7
Total acquisitions	408	434	..	408
Disposals				
Plant and machinery	10	8	..	7
Vehicles	11	5	..	2
Total disposals	21	13	..	10
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	96	64	..	78

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

1951

Summary

Larger establishments

TABLE 18

	England (a)	Wales (a)	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	15,322	..	353	..	..	15,676
Cost of materials and fuel used	9,543	..	201	..	..	9,745
Payment for work done on materials given out	4	..	-	..	..	4
Transport payments	452	..	15	..	..	467
Net output	5,323	..	137	..	..	5,460
Wages and salaries of persons employed	2,229	..	76	..	..	2,304
	No.	No.	No.	No.	No.	No.
Average number of persons employed (b)	5,254	..	208	..	..	5,462
	£	£	£	£	£	£
Net output per person employed (b)	1,013	..	659	..	..	1,000
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	(c)	..	(c)	..	..	820
Materials and fuel	(c)	..	(c)	..	..	1,444
	No.	No.	No.	No.	No.	No.
Number of establishments	61	..	3	..	..	64

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)	15,299	..	340	..	..	15,639
Changes in stocks and work in progress (see Table 21)	+ 24	..	+ 13	..	..	+ 36
Gross output (production)	15,322	..	353	..	..	15,676
Materials and fuel used by firms in this trade						
Purchases	9,921	..	230	..	..	10,151
Changes in stocks (see Table 21)	- 378	..	- 29	..	..	- 407
Materials and fuel used	9,543	..	201	..	..	9,745

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Wales and for Northern Ireland, where net output was less than one per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.

(b) Including working proprietors.

(c) 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	40	-	6	46
Average number of persons employed (b)				
Males	177	-	27	204
Females	52	-	8	60
Total	229	-	35	264

(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. tons	£'000	Th. tons	£'000	Th. tons	£'000		£'000	Th. tons	£'000
Principal products										
Edible gelatine (including pharmaceutical)	..	(a)	..	(a)	8.8	3,252	-	-	8.8	3,252
Photographic gelatine	0.8	503	-	-	0.8	503	-	-	0.8	503
Bone glue and size and hide glue and technical gelatine, dried or undried, in terms of commercial dry weight	..	(a)	..	(a)	25.4	3,852	-	-	25.4	3,852
Liquid glue, including fish glue and casein glue	..	(a)	..	(a)	..	..	..	(a)	4.5	684
Vegetable adhesives										
Cold water pastes made from starch or made from flour	10.4	529	-	-	10.4	529	-	-	10.4	529
	..	8			..	8			..	8
Cold glues, liquid or powdered	10.4	642	-	-	10.4	642	-	-	10.4	642
Liquid gums and powdered gums and pastes	16.3	1,603	-	-	16.3	1,603	-	-	16.3	1,603
Other adhesives; bleached shellac; and bone by-products	..	(a)	..	(a)	14.3	1,269	-	-	14.3	1,269
					..	199			..	199
Waste products	..	42	-	-	..	42	-	-	..	42
Work done for the trade or on commission (b)		49		-		49		-		49
Total principal products		(a)		(a)		..		(a)		12,632
Other output										
Animal oils, fats and greases										
Unrefined	7.7	790	-	-	7.7	790	-	-	7.7	790
Refined	..	(a)	..	(a)	3.2	322	-	-	3.2	322
Feeding stuffs for animals, poultry, etc.	29.9	612	-	-	29.9	612	-	-	29.9	612
Fertilisers	..	(a)	..	(a)	23.9	524	-	-	23.9	524
Other goods	..	759	-	-	..	759	-	-	..	759
Total		15,299(c)		340		..		(c)		15,639

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

(b) Amount charged.

(c) 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.

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

Larger establishments

TABLE 21

£'000

		United Kingdom
Products on hand for sale	{ at beginning of year	658
	{ at end of year	612
Work in progress	{ at beginning of year	125
	{ at end of year	208
Total products on hand for sale and work in progress	{ at beginning of year	784
	{ at end of year	820
Materials and fuel	{ at beginning of year	1,037
	{ at end of year	1,444

Employment in September

Larger establishments (a) (b)

TABLE 22

(i) Operatives

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom Number
Males					
Under 18	105	—	..	..	105
All ages	3,111	143	..	..	3,254
Females					
Under 18	68	—	..	..	68
All ages	766	19	..	..	785
Total					
Under 18	173	—	..	..	173
All ages	3,877	162	..	..	4,039

(ii) Administrative, technical and clerical employees

	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom Number
Males					
Under 18	23	—	..	..	23
All ages	901	19	..	..	920
Females					
Under 18	74	7	..	..	81
All ages	465	26	..	..	491
Total					
Under 18	97	7	..	..	104
All ages (d)	1,366	45	..	..	1,411

(continued overleaf)

TABLE 22 (contd.)

(iii) Total employees					Number
	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	128	-	..	..	128
All ages	4,012	162	..	..	4,174
Females					
Under 18	142	7	..	..	149
All ages	1,231	45	..	..	1,276
Total					
Under 18	270	7	..	..	277
All ages (d)	5,243	207	..	..	5,450

(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 merchanting and in Northern Ireland canteen and welfare workers) are shown in Table 22 (iv) below.

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

(c) 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.

(d) Working proprietors. In addition three working proprietors were engaged in this trade in larger establishments. Owing to the risk of disclosure of information relating to individual firms, separate country particulars cannot be given.

(iv) Excluded employees					Number
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers					
Males	3	-	3	-	3
Females	34	-	34	-	34
Total	37	-	37	-	37
Other workers					
Males	22	-	22	-	22
Females	13	-	13	-	13
Total	35	-	35	-	35
Total excluded employees	72	-	72	-	72

Average employment

Larger establishments (a)

TABLE 23					Number
	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Operatives	3,888	164	..	..	4,052
Administrative, technical and clerical employees	1,363	44	..	..	1,407
Total	5,251	208	..	..	5,459

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

(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.

Outworkers. No outworkers were recorded in this trade.

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

Larger establishments

TABLE 24

					£'000
	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	1,398	56	..	..	1,454
Administrative, technical and clerical employees	831	20	..	..	851
Total	2,229	76	..	..	2,304
Employers' contributions to all National Insurance Schemes	53	2	..	..	55

(a) 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.

(b) Including bonus and commission payments.

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

Larger establishments

TABLE 25

					£'000
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	281	22	303	-	303
Second-hand	14	-	14	-	14
Vehicles					
New	60	1	61	-	61
Second-hand	28	1	29	-	29
Total acquisitions	383	24	408	-	408
Disposals					
Plant and machinery					
Vehicles	9	-	10	-	10
	11	-	11	-	11
Total disposals	20	-	21	-	21
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	(a)	(a)	96	-	96

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

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

Larger establishments

TABLE 26

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	433(a)	15	..	(a)	448
Amount paid or credited to firms' own separate transport organisations	19	-	19	-	19
Total	452(a)	15	..	(a)	467

(a) 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.

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 merchandising 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, merchanted 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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