BOARD OF TRADE

The Report on the Census of Production for 1954

Volume 2: Industry Q

GLUE, GUM, PASTE AND ALLIED INDUSTRIES



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)

LONDON: HER MAJESTY'S STATIONERY OFFICE 1957

PRICE 18 6d NET

The Report on the Census of Production for 1954

THIS REPORT 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 industries correspond to minimum list heading 39(4) in the Standard Industrial Classification.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

VOLUME 2, INDUSTRY Q

GLUE, GUM, PASTE AND ALLIED INDUSTRIES

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

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. The value of sales is the net selling value, i.e., 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.

Materials and fuel: The total 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: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own yorkpeople included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working propriet. ors, administrative, technical and clerical employees, and operatives, but excludes outworkers, 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. Employees are persons on the pay-roll (i.e., persons whose National In-surance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes. Wages and salaries include all overtime payments, bonus-

es and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year. including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

GLUE, GUM, PASTE AND ALLIED INDUSTRIES 2/0/3 Industry summary: Estimates for the industry as a whole TABLE 1 £m Gross output (production) Net output Total stocks and work in progress At beginning of year Change during year Capital expenditure less disposals (b) Wages and salaries Thou Total employment (including working proprietors) (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given. (b) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of. Summary of returns received TABLE 2 FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS Number of establishments Total value of sales and work done Products on hand for sale fat beginning of yea and work in progress [change during year Gross output (production) (a) Purchases of materials and fuel Stocks of materials and fuel { at beginning of yea change during year Cost of materials and fuel used Payment for work done on materials given out Payment for transport (b) Net output Average number of employees { operatives others Total employment (d) Net output per person employed (d) of operatives Wages and salaries of others Capital expenditure New building work (e) (acquisitions (e) Plant and machinery disposals acquisitions (e) Vehicles disposals FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS Number of returns Total employment, including working proprietors (a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. (b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased. (c) Number in week ended September 25, 1948. (d) Including working proprietors. (e) Excluding expenditure for establishments not yet in production. (f) Excluding Northern Ireland, no information about small firms was collected in Northern Ireland for 1951.

(55210)

2/0/2

	United Kingdom Sco		United Kingdom		Scotland	Wales
1948	1951	1954	1954	1954 (a)		
illion 11.0	£ million 16.5	£ million 17.2	£ million 0.33	£ million		
3.9	5.7	6.4	0.15			
1.5	+ 1.9	2.7	0.16			
0.5	0.5	0.5	-	1 02		
1.8	2.4	2.7	0.08	a		
usands	Thousands	Thousands	Thousands	Thousands		
5.2	5.7	5.3	0.20			

Called Street operations where the party of			No. Doubles of the second s	
	Unit	Great Britain 1948	United	Kingdom
		1948	1951	1954
S			a service	
	No.	62	64	62
	£,000	10,483	15,639	16,531
ar	••	+ 122	+ 784	1,525
		133	00	- 133
		10,456	15,676	16,398
		6,854	10,151	9,830
ır		+ 877	1.037	1,034
Ser Constant		0/ 1	+ 407	+ 89
		6.767	9,745	9,741
	**	10	4	1
		161	467	566
	••	3,679	5,460	6,090
	No.	3,841	4,052	3,846
	••	1,148(c)	1,407	1,187
		4,991	5,462	5.034
	£	737	1,000	1,210
	£'000	1,185	1,454	1,725
		577	851	862
		78	96	101
		378	317	299
		7	10	10
		30	90	90
		4	11	16
	1			
	No.	37	46(f)	46
		213	264(f)	228
te for t			1 (1 1))	

GLUE, GUM, PASTE AND ALLIED INDUSTRIES

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

	Estab-	The second second		Employees Wages and salaries		salaries		Net output	
Average number employed (a)	lish- ments	Gross output	Net output	Operatives	Others	Operatives		expenditure (b)	per person employed (a)
	Number	£'000	£, 000	Number	Number	£'000	£,000	£'000	£
11 - 24	11	788	245	145	53	63	36	15	1.238
25 - 49	21	1,846	679	527	217	206	153	52	911
50 - 99	14	2,750	1,014	673	219	270	167	94	1,137
100 - 199	9	4,116	1,623	990	335	454	199	114	1,225
200 - 499	7	6,898	2,530	1.511	363	733	306	215	1,350
Total	62	16,398	6,090	3,846	1,187	1,725	862	490	1.210

(a) Including working proprietors.
 (b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

Т	A	R	LE	4
-		~		

	and the second second second second		Specialist pr	roducers of	Remainder	ADAS AND A
		Unit	Gelatine, glue and,size (animal)	Vegetable and other adhesives	of the industry	Total
Number of establishments Total value of sales and work Sales of characteristic produc Products on hand for sale and work in progress Gross output (production) Purchases of materials and fue Stocks of materials and fuel Cost of materials and fuel use Payment for work done on mate	cts {at beginning of year {change during year el {at beginning of year {change during year ed	• No. £'000 •• •• •• ••	$ \begin{array}{r} 28\\ 9,227\\ 7,018\\ 1,225\\ -204\\ 9,022\\ 5,146\\ 483\\ +52\\ 5,094\\ -\end{array} $	$\begin{array}{r} 22\\ 5,198\\ 4,540\\ 142\\ + 36\\ 5,235\\ 3,479\\ 425\\ + 12\\ 3,467\\ -\end{array}$	$ \begin{array}{r} 12\\ 2,106\\ + 35\\ 2,141\\ 1,206\\ + 25\\ 1,180\\ - \\ \end{array} $	$ \begin{array}{r} 62\\ 16,531\\ 1,525\\ -133\\ 16,398\\ 9,830\\ 1,034\\ +89\\ 9,741\\ 1 \end{array} $
Payment for transport Net output			354 3,574	143	69 891	566 6,090
Average number of employees Total employment (α) Net output per person employee	{operatives {others d (a)	No. £	2,473 562 3,035 1,178	802 409 1,212 1,341	571 216 787 1,132	3,846 1,187 5,034 1,210
Wages and salaries	{of operatives of others	£. 000	1,115 404	351 322	259 136	1.725 862
Capital expenditure New building work (b) Plant and machinery Vehicles	{acquisitions (b) {disposals {acquisitions (b) {disposals	··· ··· ··	38 193 4 40 6	49 56 4 27 6	13 49 1 23 4	101 299 10 90 16

(α) Including working proprietors.(b) Excluding expenditure for establishments not yet in production.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

	1951		1954		
a state and a second state of the	Quantity	Volue	Quantity	Value	Entrie
	Th.tons	£.000	Th.tons	£°000	Number
Gelatine, glue and size (animal)					
Gelatine (including pharmaceutical and photographic)	10.2	4,023(a)	10.8	3,794	20
Bone glue and size, dried, or undried in terms of commercial dry weight	14.0	1,761	12.7	1,685	20
Hide glue and technical gelatine, dried, or	+				
undried in terms of commercial dry weight	12.0	2,149(b)	11.9	1,954	18
Liquid glue	2.9	407	3.1	433	16
Other adhesives		and the second second	and write side		Contractor.
Casein glue	1.8	303	1.6	219	8
Vegetable adhesives for all purposes	43.7	3.229	40.6	3,023	26
Synthetic resin glue	•		11.0		
	8.1	954	11.2	1,153	9
Other adhesives		166	-{13.0 	1.044 257	32
Vegetable gums, not adhesive, used as finishing materials in textile industries		(c) {	2.5	379 54	3
Bleached shellac	0.7	267	0.5	152	5
		75		152	}
Bone by-products	7.6	220	8.4	303	11
laste products		42		20	14
Work done for the trade or on commission (d)		49		82	5
Total		13,729		14,711	
Sales in other industries (see Table 6)	and the sec	1,097	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	1,474	
Principal products of this industry sold by establishments in the industry		12,632		13,237	60

(a) Described as edible gelatine (including pharmaceutical) and photographic gelatine.
 (b) Including an unrecorded quantity of purchased gelatine sold in blended form.
 (c) Not separately recorded.
 (d) Amount charged.

2/2/4

GLUE, GUM, PASTE AND ALLIED INDUSTRIES

GLUE, GUM, PASTE AND ALLIED INDUSTRIES

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6	-			
	1954			Principal industries in
	Quantity	Value	Entries	which produced (a)
	Th.tons	£,000	Number	time sector a new solid
Gelatine (including pharmaceutical and photographic) bone glue and size, and hide glue		bag 1 bé ka nag	errore end	mentel assesses
and technical gelatine. dried or undried in terms of commercial dry weight	1.0	274	7	2/E. 2/F. 2/L. 2/0
Liquid glue and casein glue	0.5	85		2/I. 2/L. 9/E
Vegetable adhesives for all purposes	8.2	6 27	7	(b)
Other adhesives	2.6	187 118	} 15	(ь)
Vegetable gums, not adhesive used as finishing materials in textile industries, bleached shellac and bone by-products		128 54	}	2/E. 2/I. 6/D
Total		1.474		adament of the method

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Production is widely distributed among other industries.

Sales in the industry of other than principal products

Larger establishments in the United Kingdom

TABLE 7	1954	4
	Quantity	Value
	Th.tons	£.000
Animal (except marine animal) oils, fats and greases Tallow	1.5	95
Other animal oils, fats and greases Unrefined	12.4	749
Refined Fertilisers	4.9 13.2	357 286 260
Feeding stuffs for animals, poultry, etc.	34.3	830
Other goods		717
Total		3.294

TABLE 8 - Total make of intermediate products Larger establishments in the United Kingdom This table is not appropriate to these industries.

TABLE 9

Materials Bones and bone pieces, raw or degreased Glue and gelatine stock, hide cuttings and leather waste Wet Dry Gelatine Osseine Starch and Dextrine Natural gums and resins Packing materials Of paper and board Other Replacement parts for plant, machinery and vehicles consumable tools bought as replacements All other purchased materials Fuel and electricity Coal Coke Liquid fuels (including creosote/pitch mixtures) For use in internal combustion engines Motor spirit (petrol) for use in road vehicles fuel Other

For burning in furnaces, boilers, kilns, etc.

Gas purchased from Gas Boards and other sources

Electricity purchased from Electricity Boards and other sources (a)

All other purchased fuel

Total cost

(a) The total quantity of electricity generated in firms' own establishments in these industries in 1954 was 8913 Th.kWh.

2/Q/6

GLUE, GUM, PASTE AND ALLIED INDUSTRIES Purchases of materials and fuel, 1954 Larger establishments in the United Kingdom

	Quantity	Cost
	Th.tons	£, 000
	120.1	1,932
and skin		
	78.6	463
1	13.7	249 54
4	3.1	487
	3.3	357
	30.7	1,579
	.6	1,375
		134
	••	395
and		310
		2,770
and the second second		2,770
	133.9	490
	19.8	71
	Th.gal.	
and derv.		
	317.5	64
d	27.2 799.5	2 32
- U	/ 55.5	14
	Th.therms	
ALCONT AND	434.8	23
	Th.kWh.	
	36,654	168
		129
		9,830

2/0/7

GLUE, GUM, PASTE AND ALLIED INDUSTRIES

Average number of employees, and wages, salaries and superannuation payments

Larger establishments in the United Kingdom (a)

	1951	1954
50-160-17 (F. 160-1	Number	Number
Average number of employees Operatives Administrative, technical and clerical employees	4,052 1,407	3,846 1,187
Total	5,459	5,033
Wages and salaries paid to	£,000	£* 000
Operatives Administrative, technical and clerical employees	1,454 851	1.725 862
Total	2,304	2,587
Wages and salaries per head Operatives Administrative, technical and clerical employees	£ 359 605	£ 449 726 £'000
Superannuation and other pension funds for employees and dependents (b)	in his highlang last	
Employers' contributions		41
Employees covered	· · ·	Number 1,665 £'000
Pension, etc. payments to former employees and dependents (b)		9

(a) The following persons, not included in the table, were also employed by larger establishments in this industry ("other workers" includes, for example, employees engaged in merchanting):-

			a start of the second second
1.112	United 1		
	1951	1954	
The second s	Number	Number	
Canteen workers Male	3	2	A MAR
Female	34	32	the lease
Total	37	34	
Other workers			
Male Female	22 13	85	
Total	35	13	Wal ar
Total excluded employees	72	47	

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)

Larger establishments in the United Kingdom

	1951			1954		
	Males	Females	Total	Males	Females	Tota
Working proprietors	2	1	3	1	-	
Operatives	3,254	785	4,039	3,141	722	3,8
Administrative, technical and clerical employees	920	491	1,411	735	441	1,1
Total employees	4,174	1.276	5,450	3,876	1,163	5,0

(a) Week ended September 22, 1951, or October 30, 1954. DS 55210/1/Wt.3351 K.4 4/57 CL

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Mechanical Handling Equipment

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