



BOARD OF TRADE

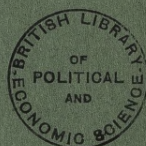
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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 2

Trade L

Ink



*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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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. NET

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* Not applicable to this trade

TABLE 2
Larger establishments

Year	1948	1947	1946	1945	1944	1943	1942	1941	1940
Number of establishments	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (a)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (b)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (c)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (d)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (e)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (f)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (g)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (h)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (i)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (j)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (k)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (l)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (m)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (n)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (o)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (p)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (q)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (r)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (s)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (t)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (u)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (v)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (w)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (x)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (y)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Output of finished products and work in progress (z)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

IN K TRADE

THIS REPORT on the Ink Trade relates to establishments engaged wholly or mainly in the manufacture of printing and writing inks.

This trade is included in minimum list heading 35(2) in the Standard Industrial Classification which covers polishes and matches as well as ink.

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

INK TRADE

Summary

Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 6,766	£'000 3,134	£'000 2,937
Cost of materials and fuel used	3,358	1,350	1,202
Payment for work done on materials given out	-	-	-
Net output	3,407	1,784	1,735
Wages and salaries of persons employed	1,441	..	..
Average number of persons employed (a)	No. 3,609 (b)	No. 2,956	No. 2,766
Net output per person employed (b)	£ 944	£ 603	£ 627
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	453	..	..
Materials and fuel	1,057	..	..
Number of establishments	No. 54	No. ..	No. 58

(a) Excluding outworkers.

(b) For the total number of persons employed in this trade see Table 3.

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

	1948	1937	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	5,692	2,864	2,715
Other output (see Table 10)	1,183	270	222
Adjustment for changes in stocks and work in progress (see Table 14)	+8	..	..
Less payment for transport by other firms	6,882 116	3,134	2,937
Gross output (production)	6,766	3,134	2,937
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	3,349	1,350	1,202
Adjustment for changes in stocks (see Table 14)	+9		
Materials and fuel used	3,358	1,350	1,202

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	11
Average number of persons employed (a)	
Males	43
Females	20
Total	63

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	3,609
Employing on average ten persons or less (b)	63
Estimated average employment in firms not making satisfactory returns	-
Average employment in all firms	3,672

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-24	No. 19	£'000 643	£'000 333	No. 339	£'000 75	£'000 62	£'000 137	£ 983
25-49	11	856	479	408	90	85	175	1,173
50-99	14	1,432	644	874	179	168	347	736
100-199	7	2,233	1,116	1,119	262	185	447	997
200 and over	3	1,601	836	869	154	180	334	962
Total	54	6,766	3,407	3,609	761	680	1,441	944

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England and Scotland								
East and West Ridings of Yorkshire	3	142	71	2.1	102	21	32	53
Eastern; Southern; South Western; and Midland	5	914	476	14.0	347	85	66	151
London and South Eastern	33	4,684	2,345	68.8	2,524	526	506	1,031
North Western	9	446	200	5.9	385	66	29	95
Northern; and Scotland	4	579	316	9.3	251	63	48	112
Total England and Scotland	54	6,766	3,407	100.0	3,609	761	680	1,441
Wales	-	-	-	-	-	-	-	-
Great Britain	54	6,766	3,407	100.0	3,609	761	680	1,441

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Printers' inks	42	5,879	4,531	3,045	2,799	627	604	1,231	1,088
Writing and other inks	8	695	553	265	687	102	58	160	385
Printers' rollers and compositions	4	193	181	97	123	32	18	50	792
Total	54	6,766		3,407	3,609	761	680	1,441	944

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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

Larger establishments

TABLE 8

	1948			1937		1935	
	Sales		Entries	Production		Production	
	Quantity	Value		Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Printers' inks							
News inks and sack inks	153.2	582	29	485.8	2,407	478.3	2,321
Liquid printing inks	48.1	743	25				
Other printing inks	136.7	3,316	41				
Printers' rollers and compositions	..	590	12	..	188	..	168
Writing inks							
Powder	{ 0.4 .. Th. galls. 3.1	{ 10 8	{ 11	Th. galls. 90.0	59	..	320
Concentrates	{	{ 4 5	{ 10				
Other	{ 552.0 ..	{ 431 71	{ 17				
Drawing inks	{ 4.9 ..	{ 21 18	{ 6				
Marking, endorsing and other similar inks	{ 14.6 ..	{ 62 45	{ 22				
Waste products	..	1	5	..	(a)	..	(a)
Work done for the trade or on commission				..	(a)	..	(a)
Total		5,910	..		2,923		2,809
Less sales (or production) in other trades (see Table 9)		218	..		59		94
Total principal products of this trade sold or made by establishments in the trade		5,692	40		2,864		2,715

(a) Not recorded separately.
(b) Amount charged.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

TABLE 9

	1948			1937		1935	
	Sales		Entries	Production		Production	
	Quantity	Value		Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Printers' inks							
News inks and sack inks	1.4	5	8	8.7	24	16.5	56
Liquid printing inks	0.3	5	6				
Other printing inks	8.6	88	13				
Writing inks							
Powder and concentrates	..	6	9	30.8	22	..	38
Other	Th. galls. 50.5	43	11				
	..	13	..				
Drawing inks; and marking, endorsing and other similar inks	4.7	16	16	..	13	..	..
	..	41	..				
Work done for the trade or on commission		1(a)	..		-		-
Total		218	..		59		94

(a) Amount charged.

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948		1937		1935	
	Sales		Production		Production	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Litho, letterpress and other printers' varnishes	195.7	251	233.9	61	179.5	42
Vegetable and other adhesives	Th. cwts. 8.5	77	Th. cwts. 9.0	52	Th. cwts. 8.1	41
Chemical colours	10.0	168	9.7	81	10.1	93
Paints, pigments and extenders in paste form	3.1	35	..	-	-	-
	..	11	..	-	-	-
Paints and painters' enamels, ready mixed; and varnishes and lacquers, not pigmented	..	198	..	76	..	46
Other goods	..	442	..	..	..	..
Total		1,183		270		222

DS 98193/1

Analysis of sales, 1948
Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Export sales organisations (including branches abroad)	149	2.2
Productive works, and other wholesale or selling organisations	236	3.4
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	385	5.6
Sales to independent buyers		
Exports invoiced directly overseas	1,042	15.2
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	93	1.3
His Majesty's Government and Local Authorities (other than productive establishments)	132	1.9
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	4,401	64.0
Wholesalers, merchants and other agents for resale	338 (a)	4.9
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	215	3.1
Other businesses (including farmers) and institutions of all kinds	258	3.7
Members of the public, including employees	10	0.1
Total sales to independent buyers	6,489	94.4
Total	6,874	100.0

(a) Of this total £272,000 was recorded as divided between £107,000 for export and £165,000 for other sales.

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

TABLE 12

	Production (b) (c)	Exports	Retained imports
	Th. cwts.	Th. cwts.	Th. cwts.
Printers' inks (d)	1948 337.9 1937 485.8	76.9 51.3	0.5 4.5
Writing inks (other than ink powder) (f)	1948 648.9(e)	265.1	Th. galls. -
Drawing inks (f)	1948 9.2(e)	7.3	0.2

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. 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 1948 and production for sale in 1937.

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

(d) The oversea trade figures include duplicating ink for the sales (or production) of which see the Miscellaneous Stationers' Goods Trade (Volume 11 Trade F).

(e) Partly estimated.

(f) Not recorded separately in 1937.

DS 98193/1

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials						
Mineral oils (other than for fuel)	125.8 ..	120 20	258.2	89	255.2	90
Vegetable oils	83.6	810	71.8	111	63.2	83
Blacks						
From natural gas	16.0	90	39.0	85	43.8	108
Other	1.6	9	1.7	7		
Colours (including white)	62.3	703	84.7	505	73.7	453
Packing materials						
Metal containers	6.0 ..	32 85	..	88	..	(a)
Glass bottles	34.5 ..	140 17				
Other packing materials	..	235				
Acid oils (including fatty acids)	Th. cwts. 2.3	12				
Waxes						
Vegetable	0.2	6				
Other	0.7	3				
Dyestuffs	3.0	133	..	411	..	429(b)
Gum arabic (c)	3.3	11				
Resin and gum not specified above (c)	30.1	216				
Solvents (c)	Th. galls. 904	177				
All other purchased materials	..	432				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Fuel and electricity						
Coal	5.4	18	7.6	10	7.4	9
Coke	1.7 Th. B. T. U. (KW. hrs.)	6	..	(a)	1.1 Th. B. T. U. (KW. hrs.)	2
Electricity purchased (d) (e)	5,951	41	6,584	31	5,974	28
Motor spirit (petrol) and derv. fuel	Th. galls.					
Used for road vehicles	69	7	..	13	..	(a)
Used for other power purposes	5	-				
Other oil fuel (including creosote/pitch mixtures)	239 ..	9 2				
Gas purchased	Th. therms					
From public supply	190	10				
From other sources	-	-				
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	-	-				
Total		3,349		1,350		1,202

- (a) Not recorded separately.
 (b) Including fuel not specified separately.
 (c) So far as recorded separately.
 (d) Including electricity obtained from other works under the same ownership.
 (e) The total quantity of electricity consumed in 1948 was 6,149,000 B. T. units including 198,000 generated in the same works.

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	Th. cwts.	£'000
Finished products				
Printers' inks	18.3 ..	141 125	17.2 ..	138 133
Other finished products	..	137	..	150
Work in progress		42		31
Total finished products and work in progress		445		453
Materials and fuel	..	1,066	..	1,057

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
	Males								
Under 18	39	86	96	33	43	39	72	129	135
All ages	1,989	1,664	1,593	825	749	708	2,814	2,413	2,301
Females									
Under 18	91	130	79	61	47	18	152	177	97
All ages	410	302	254	382	241	211	792	543	465
Total									
Under 18	130	216	175	94	90	57	224	306	232
All ages	2,399	1,966	1,847	1,207 (c)	990	919	3,606 (c) (d) (e)	2,956	2,766
Total remuneration	£'000			£'000			£'000		
	761	..	..	680	..	..	1,441	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers 1 male 50 females
Other workers 64 males 23 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) There were, in addition, 3 male working proprietors in 1948. Working proprietors are included in the 1937 and 1935 figures.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £31,000.

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	58	
Maintenance and repair of firms' buildings, but not plant	6	
Research work not directly connected with current production however charged	1	14

In addition to the employees in the above table the firms in this trade employed 4 female outworkers in 1948, the amount paid to them being less than £500. Similar information is not available for 1937 and 1935.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	761	254	24.6	25.5	24.7	25.3	100.0
Administrative, technical and clerical employees	680	201	23.3	26.3	24.3	26.1	100.0
Total	1,441	455	24.0	25.9	24.5	25.6	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid for work done on materials given out was less than £500.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	19
Of plant, machinery and vehicles	24
Unclassified	37
Hire of plant, machinery and vehicles	11
Advertising and market research	
Advertising in newspapers, magazines and periodicals	5
Other advertising services (poster display, despatch of circulars, etc.) and market research	12
Unclassified	39
Payments made for research work	
To research associations	2
To universities, institutions, academic bodies and similar agencies	-
To other commercial concerns	2
Postage, telephone, telegrams and cables	27
Commercial insurance premiums	29
Rates (excluding water rates) payable in the year	10

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	103	3	10
Vehicles	15	5	2
Total	118	8	12

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		31
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	-	
(11) Estimated capital value of rented property and of leasehold buildings and land newly occupied in the year (c)	63	
Total of heading 2		63
Total of headings 1 and 2		95
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	66	
(11) Estimated value of other properties relinquished	76	
Total of heading 3		142
4. Headings 1 and 2 less heading 3		- 47

- (a) Excluding site value, which, where appropriate, is included in heading 2(1).
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
 (c) Rented property being property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
 (d) Including property destroyed or abandoned.

1948

Note - There were no larger establishments for Wales in the register for this trade. Owing to the risk of disclosure of information relating to individual firms separate particulars for Scotland cannot be given.

TABLE 21 - Summary: Larger establishments

See Table 1.

TABLE 22 - Summary: Small firms

See Table 2. There were no small firms for Wales or Scotland in the register for this trade.

Sales in the trade

Larger establishments

TABLE 23

	Great Britain	
	Quantity	Value
	Th. cwts.	£'000
Principal products		
Printers' inks		
News inks and sack inks	151.7	577
Liquid printing inks	47.7	739
Other printing inks	128.1	3,229
Printers' rollers and compositions	..	590
Writing inks		
Powder and concentrates	..	21
Other	501.5	388
	..	57
Drawing, marking, endorsing and other similar inks	14.8	67
	..	23
Waste products	..	1
Work done for the trade or on commission		1(a)
Total principal products		5,692
Other output		
Litho, letterpress and other printers' varnishes	195.7	251
Vegetable and other adhesives	8.5	77
Chemical colours	10.0	168
Paints, pigments and extenders in paste form	3.1	35
	..	11
Paints and painters' enamels, ready mixed; and varnishes and lacquers, not pigmented	..	198
Other goods	..	442
Total		6,875

(a) Amount charged.

TABLE 24 - Purchased materials and fuel: Larger establishments

See Table 13.

TABLE 25 - Employment and remuneration: Larger establishments

See Table 15.

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)	Month	Monthly index (a)
	Great Britain		Great Britain
1948		1948	
January	107.0	August	97.2
February	105.4	September	97.4
March	102.3	October	96.1
April	102.6	November	96.1
May	101.6	December	95.6
June	99.7	Percentage employ- ment in this trade covered by the index	36.8
July	98.8		

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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