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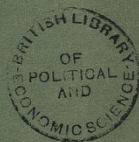
BOARD OF TRADE

FINAL REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1948

Volume 2

Trade B

DYES AND DYESTUFFS



*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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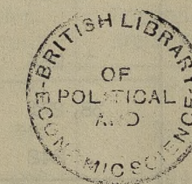
\* Not applicable to this trade

DYES AND DYESTUFFS TRADE

THIS REPORT on the Dyes and Dyestuffs Trade relates to establishments engaged wholly or mainly in the manufacture of dyestuffs and dye intermediates, aniline dyes, coal-tar dyes, vegetable dyes, and tanning extracts.

This trade corresponds to minimum list heading 31(1) in the Standard Industrial Classification.

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



## Summary

## Larger establishments

TABLE 1

	1948	1946	1937	1935
	£'000	£'000	£'000	£'000
Gross output (production)	38,028	23,105	8,848	8,110
Drawback in respect of goods exported	2			
Cost of materials and fuel used	19,941	12,140	4,577	4,147
Payment for work done on materials given out	364	127	-	-
Net output	17,725	10,838	4,271	3,963
Wages and salaries of persons employed	7,367	4,439	..	..
Average number of persons employed (a)	No. 17,283(b)	No. 12,991	No. 8,797	No. 8,174
Net output per person employed (a)	£ 1,027	£ 834	£ 485	£ 485
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	6,471	5,645	..	..
Materials and fuel	3,639	2,076	..	..
Number of establishments	No. 39	No. ..	No. ..	No. 35

(a) Excluding outworkers.

(b) For an estimate of 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	1946	1937	1935
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (1948 and 1946) or production (1937 and 1935)				
Principal products (see Table 8)	27,474	22,505	7,718	7,191
Other output (see Table 10)	9,842			
Adjustment for changes in stocks and work in progress (see Table 14)	+ 954	+ 816		
Less payment for transport by other firms	38,271	23,321	8,848	8,110
Gross output (production)	242	216		
Materials and fuel used by firms in this trade	38,028	23,105	8,848	8,110
Purchases (see Table 13)	20,300	12,310	4,577	4,147
Adjustment for changes in stocks (see Table 14)	- 358	- 170		
Materials and fuel used	19,941	12,140	4,577	4,147

## Summary, 1948

## Small firms in Great Britain

TABLE 2

Number of returns	19
Average number of persons employed (a)	
Males	86
Females	17
Total	103

(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)	17,263
Employing on average ten persons or less (b)	103
	17,366
Estimated average employment in firms not making satisfactory returns	5
Estimated average employment in all firms	17,371

(a) See Tables 1 and 15.

(b) See Table 2.

## Analysis by size, 1948

## Larger establishments in Great Britain

TABLE 4

Average number employed	Establish- ments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	
11-24	12	840	349	219	29	59	88	1,592
25-49	6	540	210	194	40	22	62	1,081
50-99	5	1,677	443	401	102	59	161	1,106
100-399	9	3,670	1,382	1,528	318	218	536	904
400 and over	7	31,301	15,342	14,921	3,677	2,842	6,520	1,028
Total	39	38,028	17,725	17,263	4,166	3,200	7,367	1,027

## 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
East and West Ridings of Yorkshire	19	17,334	7,847	44.3	8,138	1,879	1,454	3,333
London and South Eastern; Northern; North Western; Wales; and Scotland	20	20,694	9,878	55.7	9,125	2,288	1,746	4,034
Great Britain	39	38,028	17,725	100.0	17,263	4,166	3,200	7,367

TABLE 6 - Analysis according to specialisation within the trade, 1948

## Larger establishments in Great Britain

No specialisation within this trade was distinguished.

## Total make of intermediate products

## Larger establishments

TABLE 7

	Returned in this trade		Returned in all trades	
	Quantity	Entries	Quantity	Entries
	Th. cwts.	No.	Th. cwts.	No.
Dye intermediates	1,646.8	12	1,989.4	21
Finished dyestuffs obtained from coal tar				
Direct	141.2	15	142.8	19
Acid wool	(a)		149.9	19
Chrome and mordant (including alizarine)	(a)		94.7	13
Basic	41.9	10	41.9	10
Sulphur	151.1	8	151.1	8
Vat	111.4	7	111.4	7
Oil, spirit and wax (excluding pigment dyestuffs)	23.7	10	23.7	10
Dyestuffs for making lakes and toners	7.5	5	7.5	5
For acetate silk	(a)		23.1	8
Other	143.2	14	144.4	19
Total finished dyestuffs	872.0	..	890.0	..

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

## 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 Sales		1937 Production		1935 Production		
	Quantity	Value	Quantity	Value	Quantity	Value	
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000	
Dye intermediates	890.0	5,673	21	421.8	1,548	358.2	1,387
Finished dyestuffs obtained from coal tar							
Direct	127.8	2,717	19	111.9	895(a)	93.4	820(a)
Acid wool	148.9	3,881	19	112.5	1,087	98.3	996
Chrome and mordant (including alizarine)	82.7	1,577	13	75.9	682	73.3	717
Basic	42.6	1,486	10	41.5	479	34.4	445
Sulphur	134.4	1,066	8	89.3	325	76.6	280
Vat	100.7	3,449	7	46.0	717	42.9	668
Oil, spirit and wax (excluding pigment dyestuffs) (b)	23.3	481	10	13.7	157(c)	11.6	123(c)
Dyestuffs for making lakes and toners	16.2	271	5				
For acetate silk	26.4	417	8	123.1	841	121.2	814(d)
Other	152.0	3,072	19				
Finished dyestuffs obtained from other than coal tar	1.8	39	..	-	-	-	-
Total finished dyestuffs	856.9	18,455	..	613.9	5,183	551.7	4,863
Purchased dyestuffs blended (excluding household dyes)	29.9	897	15	32.3	490	30.5	498
Household dyes (e)	32.5	584	9	..	(f)	..	(f)
Myrobalan extract	280.0	348	7	..	(f)	..	(f)
Extracts for dyeing, not elsewhere specified	21.0	103	6	72.7	86	66.2	86

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Extracts for tanning (solid or liquid) not elsewhere specified							
Quebracho	184.8	329	7	264.9	160	241.2	129
Other descriptions	1,230.1	1,863	8	1,028.1	570	1,018.7	574
Waste products	..	78	11	..	(f)	..	(f)
Work done for the trade or on commission (g)		593	8		27		15
Total		28,923	..		8,064		7,552
Less sales (or production) in other trades (see Table 9)		1,449	..		346		361
Total principal products of this trade sold or made by establishments in the trade		27,474	37		7,718		7,191

(a) Described as "Direct cotton colours (including union)".

(b) For pigment dyestuffs, see the Chemicals (General) Trade (Volume 2, Trade E).

(c) Not described as excluding pigment dyestuffs.

(d) Recorded as:-

	Th. cwts.	£'000
Dyestuffs for lake making	29.2	192
Other finished dyestuffs	92.0	622

(e) So far as recorded separately.

(f) Not recorded separately.

(g) Amount charged in 1948 and amount received in 1937 and 1935.

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

## Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Dye intermediates	279.0	887	9	73.0	217	60.5	179
Finished dyestuffs	17.8	284	14	11.0	75	18.3	123
Purchased dyestuffs blended (excluding household dyes)	7.7	119	7	2.4	45	2.7	52
Household dyes							
Extracts for dyeing and tanning	6.9	54	..	11.2	9	7.3	7
Work done for the trade or on commission		105(a)	..		-		-
Total		1,449	..		346		361

(a) Amount charged.

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

## Larger establishments

TABLE 10

	1948 Sales	1937 Production	1935 Production
	£'000	£'000	£'000
Coal tar products other than dyes and dyestuffs	8	35	19
Disinfectants, insecticides, weed-killers, etc.	233	35	29
Synthetic organic chemicals for tanners' use, excluding dyes	190	40	51
Other chemical manufactures	6,276	981	756
Drugs and pharmaceutical preparations	1,452	-	-
Plastic goods	1,365	-	-
Other goods	230	39	64
Work done	88 (a)	-	-
Total	9,842	1,130	919

(a) Amount charged.

## 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		
Productive works	5,481	14.9
Export sales organisations (including branches abroad)	3,687	10.0
Other wholesale or selling organisations	1,245	3.4
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	10,413	28.3
Sales to independent buyers		
Exports invoiced directly overseas	3,653	9.9
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	48	0.1
His Majesty's Government and Local Authorities (other than productive establishments)	156	0.4
Manufacturers, repairers, builders, mines, public utilities, transport, productive undertakings and other businesses (including farmers) and institutions of all kinds	16,894	46.0
Wholesalers, merchants and other agents for resale	5,245(a)	14.3
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	245	0.7
Members of the public, including employees	85	0.2
Total sales to independent buyers	26,326	71.7
Total	36,740	100.0

(a) of this total £5,038,000 was recorded as divided between £747,000 for export and £4,290,000 for other sales.

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

TABLE 12

	Production (b) (c)	Exports	Retained imports
	Th. cwts.	Th. cwts.	Th. cwts.
Dye intermediates	{ 1948 890.0 1937 421.8	49.6 20.0	10.1 14.3
Finished dyestuffs obtained from coal tar, except pigment dyestuffs	{ 1948 855.0 1937 613.9	215.2 114.6	11.6 46.9
Extracts for dyeing, not elsewhere specified	{ 1948 21.0 1937 72.7	10.3 6.0	25.9 56.6
Extracts for tanning (solid or liquid)			
Quebracho	{ 1948 184.8 1937 264.9	26.0 58.1	234.2 398.8
Myrobalan	1948 280.0	} 60.7	{ 12.8
Other descriptions	1948 1,230.1		
Total myrobalan and other descriptions	{ 1948 1,510.1 1937 1,028.1	60.7 206.2	1,123.5 940.1

(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.

## 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. proof galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Materials						
Alcohol						
Ethyl alcohol, duty free, other than methylated spirits, and methyl alcohol	1,602.9	105	636.6(a)	38	329.2(a)	18
Methylated spirits (industrial or mineralised)	267.3	63				
Benzoles, refined (in terms of motor benzole)	1,591.2	237	742.8	57(b)	614.4	47(b)
Toluenes, refined (in terms of 90's toluole)	740.7	123	571.9	63(c)	376.8	37(c)
Packing materials	..	1,400	..	210	..	(d)
Cresylic acids, refined	152.5	35	..	(d)	..	(d)
Dye intermediates	Th. cwts.					
Made from coal tar primary products	486.6	4,029				
Other	17.3	41				
Formaldehyde, including solutions (in terms of 40 per cent. solution)	9.6	12				
Hydrochloric acid (as at 1.14 specific gravity)	29.8	198				
Limestone and lime	14.3	48	..	(d)	..	(d)
Myrobalans	235.2	204				
Nitric acid (on the basis of 100 per cent. acid)	119.6	120				
Phenol crystals and liquefied phenol (equivalent crystal phenol content)	6.5	33				
Potassium compounds	160.8	211				
Salt and brine (in terms of salt content)	69.4	197				

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
Materials (contd.)						
Sodium compounds						
Bicarbonate	0.2	3	..	3,930	..	3,831(e)
Carbonate, including soda crystals and soda ash (on the basis of 58 <sup>o</sup> )	10.3	74				
Caustic (on the basis of 76 <sup>o</sup> E)	20.7	203				
Sulphur, crude	6.6	70				
Sulphuric acid (on the basis of 100 per cent. acid)	55.7	415				
Zinc dust	20.1	81				
Water charges	..	78				
All other purchased materials	..	10,925				
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	359.6	923	223.3	193	205.3	157
Coke	29.4	63	..	(d)	4.6	5
Electricity purchased (f)	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
Electricity purchased (f)	100,419	297	32,320	56	28,160	49
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	197	18	..	(d)	..	(d)
Used for other power purposes	9	1				
Other oil fuel (including creosote/pitch mixtures)	1,135	42	243	5(g)	153	3(g)
Gas purchased	Th. therms					
Gas purchased	656	26				
Gas obtained from other works under the same ownership	-	-	..	25	..	(d)
All other purchased fuel	..	23				
Total		20,300		4,577		4,147

(a) On the basis of 100 per cent. ethyl alcohol.

(b) Described as "Refined benzole."

(c) Not described as refined.

(d) Not recorded separately.

(e) Including fuel not specified separately.

(f) The total quantity of electricity consumed in 1948 was 150,371,000 B.T. units including 49,952,000 generated in the same works.

(g) Described as "Heavy fuel oil".

## 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
Finished products	Th. cwts.	£'000	Th. cwts.	£'000
Finished dyestuffs obtained from coal tar	168.5	2,295	188.0	2,776
Other finished products	..	2,934	..	3,353
Work in progress		287		342
<b>Total finished products and work in progress</b>		<b>5,516</b>		<b>6,471</b>
Materials and fuel	Th. cwts.		Th. cwts.	
Dye intermediates made from coal tar primary products	72.8	548	80.6	649
Other descriptions of materials and fuel	...	2,733	...	2,990
<b>Total materials and fuel</b>		<b>3,281</b>		<b>3,639</b>

## 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	583	173	178	172	117	108	755	290	286
All ages	10,049	5,609	5,249	4,101	2,228	2,037	14,150	7,837	7,286
Females									
Under 18	181	36	52	349	134	60	530	170	112
All ages	1,053	180	228	2,058	780	660	3,111	960	888
<b>Total</b>									
Under 18	764	209	230	521	251	168	1,285	460	398
All ages	11,102	5,789	5,477	6,159(c)	3,008	2,697	17,261 (c) (d) (e)	8,797	8,174
Total remuneration	£'000			£'000			£'000		
	4,166	..	..	3,200	..	..	7,367	..	..

(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	10 males	321 females
Other workers	621 males	157 females

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

(c) There were, in addition, 2 working proprietors (1 male and 1 female) 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 £146,000.

(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	31	
Maintenance and repair of firms' buildings, but not plant	257	
Research work not directly connected with current production however charged	*	1,097

\* Owing to the risk of disclosure of information relating to individual firms, this figure cannot be given.



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	4,166	3,251	22.0	24.8	25.8	27.4	100.0
Administrative, technical and clerical employees	3,200	2,590	23.5	23.0	23.5	30.0	100.0
Total	7,367	5,841	22.7	24.0	24.7	28.6	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 £364,000.

Payments for certain services, 1948  
Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	146
Of plant, machinery and vehicles	337
Unclassified	134
Hire of plant, machinery and vehicles	67
Advertising and market research	
Advertising in newspapers, magazines and periodicals	41
Other advertising services (poster display, despatch of circulars, etc.) and market research	51
Unclassified	52
Payments made for research work	
To research associations	-
To universities, institutions, academic bodies and similar agencies	17
To other commercial concerns	477
Postage, telephone, telegrams and cables	53
Commercial insurance premiums	128
Rates (excluding water rates) payable in the year	29

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	1,503	131	6
Vehicles	57	5	8
Total	1,560	136	14

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)		552
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	171	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	-	
(111) Leasehold buildings and land newly occupied in the year	-	
Total of heading 2		171
Total of headings 1 and 2		723
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	1	
(11) Estimated value of other properties relinquished	-	
Total of heading 3		1
4. Headings 1 and 2 less heading 3.		722

(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) 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.

## CHEMICALS AND ALLIED TRADES COUNTRY TABLES

## DYES AND DYESTUFFS TRADE

1948

Note - Owing to the risk of disclosure of information relating to individual firms, separate particulars for larger establishments in England, Wales and 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 in 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		
Dye intermediates	611.0	4,785
Finished dyestuffs obtained from coal tar		
Basic	42.6	1,486
Sulphur	134.4	1,066
Vat	100.7	3,449
Oil, spirit and wax (excluding pigment dyestuffs)	23.3	481
Dyestuffs for making lakes and toners	16.2	271
Other finished dyestuffs including dyestuffs obtained from other than coal tar	521.9	11,419
Purchased dyestuffs blended (excluding household dyes)	54.7	1,362
Household dyes		
Myrobalan extract	280.0	348
Extracts for dyeing and tanning, not elsewhere specified	1,429.0	2,241
Waste products	..	78
Work done for the trade or on commission		488(a)
Total principal products		27,474
Other output		
Coal tar products other than dyes and dyestuffs	..	8
Disinfectants, insecticides, weed-killers, etc.	..	233
Synthetic organic chemicals for tanners' use, excluding dyes	..	190
Other chemical manufactures	..	6,276
Drugs and pharmaceutical preparations	..	1,452
Plastic goods	..	1,365
Other goods	..	230
Work done		88(a)
Total		37,316

(a) Amount charged.

## DYES AND DYESTUFFS COUNTRY TABLES

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	95.6	August	102.2
February	97.4	September	100.9
March	98.4	October	101.6
April	99.8	November	100.2
May	100.5	December	99.6
June	101.0	Percentage employment in this trade covered by the index	75.6
July	102.7		

(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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