



BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 2

Trade F

DRUGS AND PHARMACEUTICAL PREPARATIONS



*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
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THREE SHILLINGS NET

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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 0d. NET

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* Not applicable to this trade

DRUGS AND PHARMACEUTICAL PREPARATIONS

2/F/1

DRUGS AND PHARMACEUTICAL PREPARATIONS TRADE

THIS REPORT on the Drugs and Pharmaceutical Preparations Trade relates to establishments engaged wholly or mainly in the manufacture of drugs, pharmaceutical chemicals, patent medicines, pills, plasters, ointments, embrocations, health salts, medicated wines, malt extracts and similar products.

This trade corresponds to minimum list heading 32(1) in the Standard Industrial Classification, together with drugs and pharmaceutical chemicals from heading 31(4).

In 1946 and 1948 certain firms were allowed to include in their returns particulars relating to drugs, etc., purchased for re-sale and packed by them in conjunction with their productive activities. The figures shown for 1946 and 1948 are therefore not strictly comparable with those for the earlier years.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1946, 1937 or 1935.

CHEMICALS AND ALLIED TRADES
DRUGS AND PHARMACEUTICAL PREPARATIONS TRADE

Summary
Larger establishments

TABLE 1

	1948	1946	1937	1935
Gross output (production)	£'000 72,996	£'000 60,185	£'000 20,965	£'000 19,017
Cost of materials and fuel used	34,157	29,438	8,573	7,262
Payment for work done on materials given out	565	379	6	8
Excise duty (a)	2,642	..	750	740
Net output	35,631	30,368	11,636	11,007
Wages and salaries of persons employed	13,254	10,059	..	..
Average number of persons employed (b)	No. 47,188(c)	No. 44,663	No. 23,523	No. 22,099
Net output per person employed (b)	£ 755	£ 680	£ 495	£ 498
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	9,798	6,833	..	..
Materials and fuel	10,094	7,581	..	..
Number of establishments	No. 299	No. ..	No. ..	No. 202

(a) Excise duty on saccharin for 1948; the amount of duty paid on saccharin is not included in the gross output for each of the earlier years. The duty figures shown for 1937 and 1935 represent the estimated stamp duty on medicines; this duty was repealed by the Pharmacy and Medicines Act, 1941.

(b) Excluding outworkers.

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

(d)

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

	1948	1946	1937	1935
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (1948 and 1946) or production (1937 and 1935)				
Principal products (see Table 8)	63,902	59,553	16,975	16,048
Other output (see Table 10)	9,828				3,990	2,969
Adjustment for changes in stocks and work in progress	- 30(a)	+1,240		
Less payment for transport by other firms	73,700 704	60,793 608	20,965	19,017
Gross output (production)	72,996	60,185	20,965	19,017
Materials and fuel used by firms in this trade				
Purchases (see Table 13)	34,028(b)	30,399(b)	8,573	7,262
Adjustment for changes in stocks	+ 130(a)	- 961		
Materials and fuel used	34,157	29,438	8,573	7,262

(a) See Table 14.

(b) After deduction of Customs and Excise rebates and drawbacks receivable in respect of alcohol.

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	186
Average number of persons employed (a)	
Males	488
Females	526
Total	1,014

(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)	47,188
Employing on average ten persons or less (b)	1,014
	48,202
Estimated average employment in firms not making satisfactory returns	397
Estimated average employment in all firms	48,599

(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. 65	£'000 1,948	£'000 947	No. 1,110	£'000 179	£'000 151	£'000 330	£ 853
25-49	73	4,503	2,071	2,627	405	325	730	788
50-99	52	5,422	3,115	3,707	533	464	997	840
100-199	51	11,216	5,352	7,328	1,153	849	2,002	730
200-299	23	7,826	3,788	5,429	784	675	1,459	698
300-399	11	6,225	3,521	3,913	580	542	1,122	900
400-499	5	3,129	1,566	2,118	327	213	540	740
500-749	12	12,368	6,615	7,392	1,196	1,066	2,262	895
750-1,499	3	4,458	1,530	2,925	472	250	722	523
1,500 and over	4	15,903	7,125	10,639	1,805	1,285	3,091	670
Total	299	72,996	35,631	47,188	7,435	5,819	13,254	755

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								
Northern	9	3,249	1,808	4.5	1,587	233	244	477
East and West Ridings of Yorkshire	30	6,828	2,713	7.6	3,723	572	432	1,005
North Midland	18	11,129	3,679	10.3	7,198	1,099	629	1,729
Eastern	24	6,135	2,792	7.8	2,527	460	366	826
London and South Eastern	109	27,423	14,842	41.7	19,562	3,189	2,713	5,903
Southern	16	2,974	2,050	5.8	1,356	195	219	414
South Western	6	775	513	1.4	573	95	55	150
Midland	15	1,677	814	2.3	1,601	228	191	419
North Western	44	9,438	5,105	14.3	7,089	1,050	775	1,826
Total England	271	69,627	34,115	95.7	45,196	7,123	5,625	12,748
Wales	7	546	232	0.7	420	62	52	114
Scotland	21	2,822	1,284	3.6	1,572	250	142	392
Great Britain	299	72,996	35,631	100.0	47,188	7,435	5,819	13,254

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									
Drugs and pharmaceutical chemicals	31	11,052	7,930	6,701	7,197	1,203	1,099	2,302	1,044
Pharmaceutical preparations	224	41,772	33,900	20,888	30,961	4,249	3,307	7,555	674
Remainder of the trade	44	20,172		8,043	9,010	1,983	1,414	3,397	893
Total	299	72,996		35,631	47,188	7,435	5,819	13,254	755

Total make of intermediate products

Larger establishments

TABLE 7

	Returned in this trade		Returned in all trades	
	1948		1948	
	Quantity	Entries	Quantity	Entries
	Th.lbs.	No.	Th.lbs.	No.
Acetylsalicylic acid (aspirin)				
Tablets	(a)	..	2,342.4	52
Other	492.6	..	3,952.1	10
Barbituric acid, its derivatives and their salts	(a)	..	90.5	10
Caffeine			80.1	5
Chloral hydrate			244.5	5
	Mill. inter-national units		Mill. inter-national units	
Insulin, (including insulin protamine with zinc and solution)	4,429.2	5	4,429.2	5
	Th.lbs.		Th.lbs.	
Neocarsphenamine, sulpharsphenamine and other organo-arsenic compounds of like medicinal application	176.8	8	176.8	8
	Th.mega. units		Th.mega. units	
Penicillin	8,686.6	..	8,686.6	..
	Th.ozs.		Th.ozs.	
Quinine and quinine salts	(a)	..	1,568.1	12
	Th.lbs.		Th.lbs.	
Salicylates, not elsewhere specified				
Sodium salicylate	(a)	..	1,098.7	5
Other salicylates, including methyl salicylate but excluding salicylic acid	2.4	..	749.4	8
	Th.ozs.		Th.ozs.	
Sex hormones and preparations (natural or synthetic) having analogous physiological activity	25.3	6	25.3	6
Saccharin (including substances of a like nature or use)	12,415.5	..	12,415.5	..

(a) Owing to the risk of disclosure of information relating to individual firms separate figures 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	Entries	Quantity	Value	Quantity	Value
	Th.lbs.	£'000	No.	Th.lbs.	£'000	Th.lbs.	£'000
Acetylsalicylic acid (aspirin)							
Tablets	2,091.1	2,054	59	2,191.0	1,059 (a)	1,466.3	175 (a)
Other	3,416.6	518	12				
Acriflavine, uflavine, proflavine and other acridine antiseptics	4.5	28	10				
	..	13					
Alkaloids							
Ephedrine	15.4	110	9				
Strychnine	..	16	6				
Other alkaloids, excluding caffeine and theobromine, but including emetine and its salts and morphine, codeine, ethyl morphine and other derivatives of morphine	35.0	1,004	10	..	(b)	..	(b)
	..	114					
Barbituric acid, its derivatives and their salts	80.6	239	13				
Benzyl benzoate	506.1	106	6				
Chloral hydrate	253.7	47	7				
	Mill. inter-national units			Mill. inter-national units		Mill. inter-national units	
Insulin, including insulin protamine with zinc and solutions	3,625.2	1,054	5	590.3	173	501.5	175
	Th.lbs.						
Menthol	9.2	10	5	..	(b)	..	(b)
	..	1					
Mepacrine and its salts and other synthetic anti-malarial drugs	36.7	74	..				
	..	28					
				Th.lbs.		Th.lbs.	
Neocarsphenamine, sulpharsphenamine and other organo-arsenic compounds of like medicinal application	100.5	643	8	6.9	109	7.9	107
	Th.mega. units						
Penicillin	7,963.2	2,830	5	-	-	-	-

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. ozs.	£'000	No.	Th. ozs.	£'000	Th. ozs.	£'000
Quinine and quinine salts	1,538.6	308	14	2,746.1	286	2,463.2	259
Salicylates, not elsewhere specified	Th. lbs.						
Sodium salicylate	1,052.9	118	6				
Other salicylates, including methyl salicylate but excluding salicylic acid	727.3	117	9				
Sex hormones and preparations (natural or synthetic) having analogous physiological activity	21.5	206	8				
Sulphonamides	Th. lbs.						
Sulphonilamide	192.4	67	6				
	..	89					
Other sulphonamides, including sulphapyridine	705.4	1,877	15	..	(b)	..	(b)
	..	689					
Theobromine	271.9	332	9				
Vaccines, sera and other serological products	Th. litres						
	11.3	159	8				
	..	363					
Vitamins, not including preparations containing vitamins	Th. lbs.						
Vitamin D 2 (calciferol)	0.9	173	5				
	..	26					
Other synthetic vitamins (excluding nicotinic acid) and vitamins not produced synthetically	23.7	296	11				
	..	110					
Health salts and salines	113.5	1,925	53	144.6	1,879	95.0	989
Infants and invalids' foods (specifically medicinal), without a milk base, other than liver extract preparations, malt extract, malted foods and medicated wines	..	811	13	..	363	..	349
Liver extracts	Th. litres						
For injection	20.0	463	11				
Other liver extracts and preparations thereof	Th. galls.	50	11	..	(b)	..	(b)
	Th. lbs.	62					

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TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. galls.	£'000	No.	Th. galls.	£'000	Th. galls.	£'000
Malt extract	23.9	22	27	1,848.3	450	2,045.5	604
	Th. cwts.				Th. cwts.		Th. cwts.
	453.2	2,092		66.4	117	102.4	205
Cod liver oil and malt	Th. galls.		23	Th. galls.			
	119.8	100			5,690	236	
	Th. cwts.			..	89		
	97.7	630					
Halibut liver oil and malt (a)	Th. galls.		..	..		..	(b)
	39.7	38					
	Th. cwts.			..	(b)		
	0.7	4					
	..	7					
Malted foods, without a milk base	..	690	16	..	284	..	232
Medicated wines	Th. galls.			Th. galls.		Th. galls.	
	222.1	516	13	232.0	288	263.2	326
	Th. cwts.			Th. cwts.		Th. cwts.	
Medicinal oils, not elsewhere specified	22.9	427	30	1.6	45	2.2	58
	..	194			..			11
Ointments and liniments							
Containing penicillin	1.6	129	43	-	-	-	-
Other	55.0	1,592	150	63.5	908	55.9	708
	..	406					
Pills and medicated lozenges, pastilles, capsules and tablets, not included above							
Containing penicillin	..	712	24	-	-	-	-
Other	..	13,736	197	..	3,068	..	2,544
Unclassified	..	281	..	-	-	-	-
Yeast preparations in tablet form (a)	..	139	..	..	(b)	..	(b)
Yeast foods and bacteriological media, not elsewhere specified (a)	..	35	..	..		..
Proprietary medicines, not elsewhere specified	..	8,496	132	..	3,106	..	4,696
Other compounded or processed pharmaceutical preparations							
Containing penicillin	..	675	21	-	-	-	-
Other	..	8,448	138	..	4,001	..	3,744
Other drugs and pharmaceutical chemicals, not elsewhere specified	..	3,846	64	

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TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.	Th. cwts.	£'000	Th. cwts.	£'000
Unclassified pharmaceutical preparations	..	1,829	20	..	1,062	..	688
— Unclassified drugs and pharmaceutical chemicals	..	1,038	9				
Saccharin (including substances of a like nature or use)	Th. ozs. 10,820.8	2,458	..	..	(b)	..	(b)
Floral concretes	Th. lbs. 36.8	47	..				
Surgical and medical dressings, not wholly of cotton, medicated or not, other than piece-goods	Th. cwts.			..	130	..	494
Rigid adhesive plasters	22.9 ..	322 323	10				
Elastic adhesive bandages	12.8	725	9	..	488	..	494
Adhesive dressings, including chiropody plasters	5.2 ..	606 243	10				
Other bandages, including plaster of paris bandages	..	540	11	..	(b)	..	(b)
Other dressings, including first-aid outfits and holdalls	..	738	24				
Waste products	..	102	28	..	(b)	..	(b)
Work done for the trade or on commission		831(d)	56		42(d)		32(d)
Total		70,105	..		18,194		17,149
Less sales (or production) in other trades (see Table 9)		6,203	..		1,219		1,101
Total principal products of this trade sold or made by establishments in the trade		63,902	271		16,975		16,048

(a) So far as recorded separately.
(b) Not recorded separately.

3497

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. lbs.	£'000	No.	Th. lbs.	£'000	Th. lbs.	£'000
Acetylsalicylic acid (aspirin)	3,280.0	510	6	1,161.9	131	997.3	117
Alkaloids, excluding caffeine and theobromine	7.5	63	..	..	(a)	..	(a)
Barbituric acid, its derivatives and their salts	20.5	43	..				
Health salts and salines	Th. cwts. 3.1	35	9	Th. cwts. 2.4	22	Th. cwts. 0.7	5
Malt extract	9.8	45	..	Th. galls. 37.8	9	Th. galls. 78.4	35
Ointments and liniments	2.9	93	27	Th. cwts. 3.0	5	Th. cwts. 1.5	3
	..	159		11.4	112	8.0	75
Pills and medicated lozenges, pastilles, capsules and tablets, not included above	..	1,132	67	..	34	..	21
Proprietary medicines, not elsewhere specified	..	574	6	..	89	..	75
Other compounded or processed pharmaceutical preparations	..	508	37	..	436	..	397
Other drugs and pharmaceutical chemicals, not elsewhere specified	..	2,632	..				
Unclassified pharmaceutical preparations	..	89	5	..	158	..	233
Unclassified drugs and pharmaceutical chemicals	..	17	..				
Floral concretes	Th. lbs. 36.8	47	..	..	(a)	..	(a)
Surgical and medical dressings, not wholly of cotton, medicated, or not, other than piece goods	..	199	..	3.8	130	..	140
Work done for the trade or on commission		58(b)	11		-		-
Total		6,203	..		1,219		1,101

(a) Not recorded separately.
(b) 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
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products	644	199	89
Perfumery, cosmetics and toilet preparations (other than essential oils)			
Hair preparations	262	217	199
Face creams; and handcreams, jellies and tablets	526	170(a)	119(a)
Dental preparations	713	901	606
Soap (including household and other soaps)	238	187	47
Other descriptions	775	592	509
Surgical and medical dressings (wholly of cotton)	1,278	10	9
Food and drink products	2,017	684	635
Other chemical products, not elsewhere specified	1,551	686	593
Other goods	1,797	344	163
Work done	27(b)	-	-
Total	9,828	3,990	2,969

(a) Described as "Face and skin creams".

(b) 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	873	1.2
Export sales organisations (including branches abroad)	4,119	5.7
Other wholesale or selling organisations	5,387	7.4
Retail shops, etc.	5,756	7.9
Unclassified	1,610	2.2
Total sales (or transfers) to other organisations under the same control	17,746	24.3
Sales to independent buyers		
Exports invoiced directly overseas	6,750	9.3
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	2,440	3.4
His Majesty's Government and Local Authorities (other than productive establishments)	2,750	3.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	3,605	4.9
Wholesalers, merchants and other agents for resale	20,002(a)	27.4
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	16,443	22.6
Other businesses (including farmers) and institutions of all kinds	1,394	1.9
Members of the public, including employees	109	0.2
Unclassified	1,691	2.3
Total sales to independent buyers	55,184	75.7
Total	72,930	100.0

(a) Of this total £15,248,000 was recorded as divided between £2,460,000 for export and
£12,788,000 for other sales.

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

TABLE 12

		Production (b)	Exports	Retained imports
		Th. lbs.	Th. lbs.	Th. lbs.
Acetylsalicylic acid (aspirin)	1948	6,294.5	1,220.2	34.9
	1937	2,191.0(c)	192.3	27.4
Chloral hydrate	1948	244.5	135.6	-
	1937	..	11.4	2.4
		Mill. international units	Mill. international units	Mill. international units
Insulin (including insulin protamine with zinc and solutions)	1948	4,429.2	1,079.2	0.6
	1937	590.3(c)	33.6	61.6
		Th. lbs.	Th. lbs.	Th. lbs.
Menthol	1948	10.0(c) (d)	6.1	22.0
	1937	..	17.4	49.6
		Th. mega. units	Th. mega. units	Th. mega. units
Penicillin	1948	8,686.6	4,315.6	..
		Th. ozs.	Th. ozs.	Th. ozs.
Quinine and quinine salts	1948	1,568.1	1,812.0	(e)
	1937	2,746.1(c)	2,085.3	1,173.9
		Th. cwts.	Th. cwts.	Th. cwts.
Malt extract	1948	458.0(c) (d)	6.0	9.0
Medicinal oils, not included elsewhere	1948	33.0(c) (d)	3.0	7.9
Ointments and liniments				
Containing penicillin	1948	1.6(c)	0.3	0.2
Other	1948	69.0(c) (d)	34.0	
Total ointments and liniments	1948	70.6(c) (d)	34.4	0.2
	1937	63.5(c)	9.6	0.2
		Th. ozs.	Th. ozs.	Th. ozs.
Saccharin (including substances of a like nature or use)	1948	12,415.5	3,485.8	2.0
	1937	..	1,577.9	0.8
		Th. lbs.	Th. lbs.	Th. lbs.
Floral concretes	1948	36.8(c)	0.9	12.2
	1937	..	0.2	6.2

- (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) Including sales (or production) by establishments classified to other trades.
- (c) Sales in 1948 and production for sale in 1937.
- (d) Partly estimated.
- (e) Re-exports in excess of imports.

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 paid	522.0	5,496				
Duty free, other than methylated spirits	569.0	107				
Th. bulk galls.						
Methylated spirits (industrial or mineralised)	804.0	176	492.0	533(a)	379.0	453(a)
Th. proof galls.						
Methyl alcohol	100.0	10				
..	..	6				
Th. lbs.			Th. lbs.		Th. lbs.	
Essential oils	403.7	261	302.5	68	..	(b)
Iodine, crude	330.0	148	158.2	28	112.9	25
Th. cwts.			Th. cwts.			
Malt	605.4	1,474	350.1	260	..	(b)
Packing materials	..	7,660	..	1,645	..	(b)
Th. tons						
Acetone	0.9	67				
Ammonia liquor (in terms of 880 ammonia)	1.6	20				
Th. galls.						
Benzoles, refined (in terms of motor benzole)	74.0	12				
Th. lbs.						
Bismuth	433.7	236				
Th. cwts.						
Bromine	7.0	48				
Chlorine	38.4	43				
Glycerine	35.7	224				

Purchased materials and fuel

Larger establishments

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		£'000		£'000
Materials (contd.)						
Hydrochloric acid (as at 1.14 specific gravity)	3.5	34				
	Th. cwt.					
Lactose	25.4	141				
	Th. tons					
Nitric acid (on the basis of 100 per cent. acid)	0.4	13				
	Th. galls.					
Paraffin (other than for use as fuel)						
Liquid	1,178.0	332				
	Th. lbs.					
Soft and hard	2,762.6	85	..	4,358	..	6,621(c)
	Th. tons					
Phenol crystals and liquefied phenol (equivalent crystal phenol content)	0.2	26				
Potassium compounds	1.8	63				
Sodium compounds						
Bicarbonate	3.8	46				
Carbonate, including soda crystals and soda ash (on the basis of 58°)	1.5	22				
Caustic (on the basis of 76°E)	3.7	38				
Sulphuric acid (on the basis of 100 per cent. acid)	3.3	32				
Water charges	..	80				
All other purchased materials	..	21,191				
Unclassified materials	-	-	..	1,431	-	-
			Th. tons		Th. tons	
Fuel and electricity						
Coal	189.4	525	107.0	113	95.6	89
Coke	13.4	47	..	(b)	20.8	16

Purchased materials and fuel

Larger establishments

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. B. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000
Fuel and electricity (contd.)						
Electricity purchased (d)						
From public supply						
From other sources	60,814	268	10,654	53	7,549	45
Electricity obtained from other works under the same ownership						
	Th. galls.		Th. galls.		Th. galls.	
Motor spirit (petrol) and deriv. fuel						
Used for road vehicles	682	65	..	(b)	..	(b)
Used for other power purposes	70	3				
Other oil fuel (including creosote/pitch mixtures)	3,180	117	687	8(e)	791	13(e)
	Th. therms		..	9(e)		
Gas purchased						
From public supply						
From other sources	898	43	..	(b)	..	(b)
Gas obtained from other works under the same ownership	2,810	1				
All other purchased fuel	..	11	..	62(c)	-	-
Total		39,172		8,573		7,262
Less Customs and Excise rebates and drawbacks receivable in respect of alcohol		5,145		..		..
Total (exclusive of Customs and Excise rebates and drawbacks receivable in respect of alcohol in 1948)		34,028		8,573		7,262

- (a) Described as "Alcohol (on the basis of 100 per cent. ethyl alcohol)".
 (b) Not recorded separately.
 (c) Including fuel not specified separately.
 (d) The total quantity of electricity consumed in 1948 was 76,828,000 B. T. units including 16,014,000 generated in the same works.
 (e) 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
		£'000		£'000
Finished products	..	6,785	..	6,607
Work in progress		3,043		3,191
Total finished products and work in progress		9,828		9,798
Materials and fuel				
Alcohol	Th. proof galls.		Th. proof galls.	
Ethyl alcohol	51	172	64	170
Methylated Spirits (industrial or mineralised)	Th. bulk galls. 69	14	Th. bulk galls. 78	17
Other descriptions of materials and fuel	..	10,037	..	9,907
Total materials and fuel		10,224		10,094

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	800	834	710	259	196	149	1,059	1,030	859
All ages	14,416	7,241	6,908	7,088	3,477	3,360	21,504	10,718	10,268
Females									
Under 18	2,765	3,364	2,810	1,108	676	448	3,873	4,040	3,258
All ages	18,688	9,880	9,075	6,984	2,925	2,756	25,672	12,805	11,831
Total									
Under 18	3,565	4,198	3,520	1,367	872	597	4,932	5,070	4,117
All ages	33,104	17,121	15,983	14,072(c)	6,402	6,116	47,176 (c)(d)(e)	23,523	22,099
Total remuneration	£'000			£'000			£'000		
	7,435	..	..	5,819	..	..	13,254	..	..

(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	36 males	642 females
Other workers	1,958 males	2,776 females

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

(c) There were, in addition, 12 working proprietors (9 males and 3 females) 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 £337,000.

(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	368	
Maintenance and repair of firms' buildings but not plant	474	
Research work not directly connected with current production however charged	228	757

In addition to the employees in the above table the firms in this trade employed 18 female outworkers in 1948, the amount paid to them being £3,000. 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
	£'000	£'000					
Wages and salaries of							
Operatives	7,435	2,988	24.8	24.5	24.4	26.4	100.0
Administrative, technical and clerical employees	5,819	2,333	25.0	24.3	24.1	26.6	100.0
Total	13,254	5,322	24.9	24.4	24.2	26.5	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 £565,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	146
Of plant, machinery and vehicles	247
Unclassified	377
Hire of plant, machinery and vehicles	140
Advertising and market research	
Advertising in newspapers, magazines and periodicals	2,023
Other advertising services (poster display, despatch of circulars, etc.) and market research	708
Unclassified	1,247
Payments made for research work	
To research associations	28
To universities, institutions, academic bodies and similar agencies	20
To other commercial concerns	53
Postage, telephone, telegrams and cables	273
Commercial insurance premiums	227
Rates (excluding water rates) payable in the year	113

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
Plant and machinery	£'000 1,885	£'000 200	£'000 69
Vehicles	147	39	36
Total	2,032	239	104

**Capital expenditure on building work and changes in
occupation of buildings and land, 1948**
Larger establishments in Great Britain

TABLE 20

1. Capital expenditure on building work (a)	£'000	£'000
2. Existing buildings and land (b)		1,095
(1) Capital cost of freeholds bought	45	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	238	
(111) Leasehold buildings and land newly occupied in the year	260	
Total of heading 2		542
Total of headings 1 and 2		1,637
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	13	
(11) Estimated value of other properties relinquished	284	
Total of heading 3		297
4. Headings 1 and 2 less heading 3		1,340

- (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.

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
Gross output (production)	£'000 69,627	£'000 546	£'000 2,822	£'000 72,996
Cost of materials and fuel used	32,404	215	1,538	34,157
Payment for work done on materials given out	466	99	-	565
Excise duty	2,642	-	-	2,642
Net output	34,115	232	1,284	35,631
Wages and salaries of persons employed	12,748	114	392	13,254
Average number of persons employed (a)	No. 45,196	No. 420	No. 1,572	No. 47,188
Net output per person employed (a)	£ 755	£ 552	£ 817	£ 755
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	9,410	51	336	9,798
Materials and fuel	9,796	14	284	10,094
Number of establishments	No. 271	No. 7	No. 21	No. 299

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (see Table 23)	70,324	521	2,884	73,730
Adjustment for changes in stocks and work in progress	- 40	+ 34	- 24	- 30
Less payment for transport by other firms	657	9	38	704
Gross output (production)	69,627	546	2,822	72,996
Materials and fuel used by firms in this trade				
Purchases (see Table 24) (a)	32,217	194	1,616	34,028
Adjustment for changes in stocks	+ 187	+ 21	- 78	+ 130
Materials and fuel used	32,404	215	1,538	34,157

(a) After deduction of Customs and Excise rebates and drawbacks receivable in respect of alcohol.

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	169	2	15	186
Average number of persons employed (a)				
Males	446	5	37	488
Females	462	4	60	526
Total	908	9	97	1,014

(a) Including working proprietors.

Sales in the trade
Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Th. lbs.	£'000		£'000	Th. lbs.	£'000
Acetylsalicylic acid (aspirin)	..	(a)	..	(a)	2,227.6	2,063
Alkaloids, excluding caffeine and theobromine	..	(a)	..	(a)	58.9	1,106
Barbituric acid, its derivatives and their salts	60.1	197	-	-	60.1	197
Insulin, including insulin protamine with zinc and solution	3,625.2	1,054	-	-	3,625.2	1,054
Neocarsphenamine, sulpharsphenamine and other organo-arsenic compounds of like medicinal application	100.5 Th. mega. units	643	-	-	100.5 Th. mega. units	643
Penicillin	7,963.2	2,830	-	-	7,963.2	2,830
Vaccines, sera and other serological products	..	(a)	..	(a)	11.3	159
Health salts and salines	..	(a)	..	(a)	..	363
Infants and invalids' foods (specifically medicinal), without a milk base, other than liver extract preparations, malt extract, malted foods and medicated wines	..	(a)	..	(a)	..	811
Liver extracts, for injection	20.0 Th. galls.	463	-	-	20.0 Th. galls.	463
Malt extract	23.9 Th. cwts.	22	-	-	23.9 Th. cwts.	22
	312.4	1,454	131.0	593	443.4	2,047
Halibut liver oil and malt	..	(a)	..	(a)	39.7 Th. galls.	38
					0.7 Th. cwts.	4
					..	7

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. galls.	£'000		£'000	Th. galls.	£'000
Principal products (contd.)						
Medicated wines	222.1	516	-	-	222.1	516
Medicinal oils, not elsewhere specified	Th. cwts. ..	(a)	Th. cwts. ..	(a)	Th. cwts. 22.9 ..	427 194
Ointments and liniments	51.9 ..	1,604 246	1.8 ..	24	53.7 ..	1,627 246
Pills and medicated lozenges, pastilles, capsules and tablets, not included above						
Containing penicillin	..	711	..	1	..	712
Other	..	12,826	..	59	..	12,885
Proprietary medicines, not elsewhere specified	..	7,763	..	160	..	7,923
Other compounded or processed pharmaceutical preparations						
Containing penicillin	..	(a)	..	(a)	..	675
Other	..	9,185	..	463	..	9,647
Other drugs and pharmaceutical chemicals, not elsewhere specified	..	5,510	..	419	..	5,930
Unclassified pharmaceutical preparations	..	1,687	..	54	..	1,740
Unclassified drugs and pharmaceutical chemicals	..	1,021	-	-	..	1,021
Saccharin (including substances of a like nature or use)	Th. ozs. 10,820.8	2,458	-	-	Th. ozs. 10,820.8	2,458
Surgical and medical dressings, not wholly of cotton, medicated or not, other than piece-goods	..	(a)	..	(a)	..	3,299
Waste products	..	88	..	14	..	102
Work done for the trade or on commission (b)		773		-		773
Total principal products		61,251		2,652		63,902

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000
Other output						
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products	..	635	..	9	..	644
Perfumery, cosmetics and toilet preparations (other than essential oils)						
Hair preparations	..	(a)	..	(a)	..	262
Face creams; and hand creams, jellies and tablets	..	525	..	1	..	526
Dental preparations						
Soap (including household and other soaps)	..	(a)	..	(a)	..	713
Other descriptions	..	773	..	2	..	775
Surgical and medical dressings (wholly of cotton)	..	(a)	..	(a)	..	1,278
Food and drink products	..	2,002	..	16	..	2,017
Other chemical products, not elsewhere specified	..	1,392	..	159	..	1,551
Other goods	..	1,760	..	37	..	1,797
Work done (b)		27		-		27
Total		70,846		2,884		73,730

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

(b) Amount charged.

Purchased materials and fuel

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. proof galls.	£'000	Th. proof galls.	£'000	Th. proof galls.	£'000
Materials						
Alcohol						
Ethyl alcohol						
Duty paid	493.0	5,199	29.0	298	522.0	5,496
Duty free, other than methylated spirits	454.0	92	115.0	15	569.0	107
Methylated spirits (industrial or mineralised)	704.0	155	100.0	21	804.0	176
Methyl alcohol	92.0	9	8.0	1	100.0	10
Essential oils	401.5	258	2.2	3	403.7	261
Iodine, crude	326.8	146	3.2	1	330.0	148
Malt	468.3	1,140	137.1	334	605.4	1,474
Packing materials	..	7,526	..	134	..	7,660
Acetone	0.7	53	0.2	14	0.9	67
Ammonia liquor (in terms of 880 ammonia)	1.4	19	0.2	1	1.6	20
Benzoles, refined (in terms of motor benzole)	..	(a)	..	(a)	74.0	12
Bismuth	433.5	236	0.2	-	433.7	236
Bromine	7.0	48	-	-	7.0	48
Chlorine	..	(a)	..	(a)	38.4	43
Glycerine	34.6	214	1.0	10	35.7	224
Hydrochloric acid (as at 1.14 specific gravity)	3.4	33	0.1	1	3.5	34
Lactose	25.4	141	-	-	25.4	141
Nitric acid (on the basis of 100 per cent. acid)	0.4	13	-	-	0.4	13
Paraffin (other than for use as fuel)	Th. galls.		Th. galls.		Th. galls.	
Liquid	1,171.0	330	8.0	2	1,178.0	332
Soft and hard	2,662.5	83	100.1	3	2,762.6	85
Phenol crystals and liquefied phenol (equivalent crystal phenol content)	0.2	26	-	-	0.2	26
Potassium compounds	..	(a)	..	(a)	1.8	63

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
Sodium compounds						
Bicarbonate	3.8	46	-	-	3.8	46
Carbonate, including soda crystals and soda ash (on the basis of 58°)	1.5	22	-	-	1.5	22
Caustic (on the basis of 76°E)	3.7	37	-	2	3.7	38
Sulphuric acid (on the basis of 100 per cent. acid)	3.1	30	0.2	2	3.3	32
Water charges	..	76	..	4	..	80
All other purchased materials	..	20,232	..	959	..	21,191
Fuel and electricity						
Coal	168.9	472	20.4	52	189.4	525
Coke	13.3	47	0.1	-	13.4	47
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	60,055.0	264	759.0	4	60,814.0	268
From other sources	..	..	..	..	..	..
Electricity obtained from other works under the same ownership	..	..	..	..	..	..
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	662.0	64	20.0	2	682.0	65
Used for other power purposes	..	(a)	..	(a)	70.0	3
Other oil fuel (including creosote/pitch mixtures)	3,180.0	117	-	-	3,180.0	117
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	884.0	42	15.0	1	899.0	43
From other sources	2,810.0	1	-	-	2,810.0	1
Gas obtained from other works under the same ownership	..	(a)	..	(a)	..	11
All other purchased fuel	..	..	..	..	..	..
Total		37,294		1,878		39,172
Less Customs and Excise rebates and drawbacks receivable in respect of alcohol		4,383		262		5,145
Total (exclusive of Customs and Excise rebates and drawbacks receivable in respect of alcohol)		32,412		1,616		34,028

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

(b) The total quantity of electricity consumed in Great Britain was 76,828,000 B.T. units including 16,014,000 generated in the same works. Owing to the risk of disclosure of information relating to individual firms separate particulars for England and Wales and for Scotland cannot be given.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	776	257	1,033	24	2	26	800	259	1,059
All ages	13,871	6,897	20,768	545	191	736	14,416	7,088	21,504
Females									
Under 18	2,612	1,085	3,697	153	23	176	2,765	1,108	3,873
All ages	18,054	6,782	24,836	634	202	836	18,688	6,984	25,672
Total									
Under 18	3,388	1,342	4,730	177	25	202	3,565	1,387	4,952
All ages	31,925	13,879 (b)	45,804 (b) (c)	1,179	393	1,572 (c)	33,104	14,072 (b)	47,176 (b) (c)
Total remuneration	£'000 7,185	£'000 5,677	£'000 12,863	£'000 250	£'000 142	£'000 392	£'000 7,435	£'000 5,819	£'000 13,254

(a) Number at September 25, 1948.

(b) There were, in addition, 12 working proprietors (9 males and 3 females) in England and Wales.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £337,000; £326,000 for England and Wales, and £11,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total	
England and Wales	-	18	18	£'000 3
Scotland	-	-	-	-
Great Britain	-	18	18	3

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

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	105.2	105.9	105.2	August	96.6	99.3	96.7
February	103.8	105.9	103.9	September	97.6	96.9	97.6
March	101.9	104.4	102.0	October	99.4	97.9	99.4
April	100.5	102.2	100.6	November	100.7	95.2	100.5
May	99.7	100.5	99.8	December	100.2	95.2	100.1
June	97.7	98.8	97.8	Percentage employment in this trade covered by the index	41.5	35.0	41.3
July	96.6	97.6	96.6				

(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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