

THE CHEMICALS, DYESTUFFS AND DRUGS TRADES

INTRODUCTORY

These trades comprise firms that were engaged, wholly or mainly in the manufacture of chemicals (except fertilisers and explosives), the distillation of tar and the manufacture or compounding of drugs and medicinal preparations.

Returns were not obtained from Gas Undertakings at the Import Duties Act Inquiries of 1933 and 1934, and the recorded output of coal tar products in those two years was therefore seriously defective; the production aggregates for some other products as returned at those Inquiries were also incomplete, though to a less extent, owing to the exclusion of certain trades and firms. Particulars of the output in 1935 of all chemical products by firms (including Gas Undertakings) that were not required to make returns for 1933 or 1934 are given below:—

Coal tar products :—		Th. galls.	£'000
Benzol :—			
Crude		7,234	294
Refined		10,772	677
Carbolic acid :—			
Crude		136	14
Crystal		8.8	28
Cresylic acid		458	35
Naphtha		818	52
Naphtha, solvent		501	23
Naphthalene		86	30
Toluol		632	64
Heavy coal tar oils :—			
Tar oil		573	11
Creosote oil		1,726	262
Other sorts (including anthracene oil)		4,165	95
Unclassified		872	13
Total—Heavy coal tar oils		7,336	381
Xylol		214	25
Other coal tar products		46	18
TOTAL—Coal tar products			1,641
Other chemical products :—		Th. tons	
Sulphuric acid		35.0	96
Carbonic acid gas		79.1	51
Potassium compounds, other sorts		7.8	21
Essential oils		27.5	28
Brewers' finings, etc. ... ..		...	29
Other sorts ... ..		...	93
TOTAL			1,959

In Tables XIII to XXIV particulars regarding the size of establishments, areas in which business is carried on, output and materials, fuel, and electricity purchased and used, are given for 1935 in respect of each of the following sub-divisions of the industry:—

- (i) Drugs, medicines and medicinal preparations.
- (ii) Dyes and dyestuffs.
- (iii) Coal tar products (other than dyes and dyestuffs).

Table I A.—General summary

Particulars	1935	1934	1933	1930*	1924*
Value of products (Gross output)...	£'000 68,761	£'000 62,707	£'000 59,064	£'000 52,653	£'000 54,472
Cost of materials, fuel and electricity used	31,458	28,973	27,341	26,520	29,765
Amount paid for work given out... ..	15	8	8	8	11
Estimated Excise duty	740	730	810	1,140	1,429
Net output	36,548	32,996	30,905	24,985	23,267
Average number of persons employed	No. 77,611	No. 73,347	No. 68,335	No. 70,475	No. 66,962
Net output per person employed...	£ 471	£ 450	£ 452	£ 355	£ 347
Number of returns	No. 559	} †	† {	No. 534	No. 613
Number of establishments... ..	601			604	†

* The figures relate to Great Britain only, separate particulars of the small output in Northern Ireland not being available.

† Not available.

Table I B.—Firms employing not more than ten persons on the average

Particulars	1935	1930*	1924
Number of returns received	No. 513	No. 523	No. 400
Average number of persons employed:—			
Males... ..	2,018	2,227	1,928
Females	790	943	355
TOTAL	2,808	3,170	2,283
Number of firms not making returns	1	23	120

* Great Britain only.

In 1924 the value of the gross output of the 400 small firms making returns (including the few firms in Northern Ireland, for which separate particulars cannot be given) was 3.1 per cent. of the total, the principal classes of goods affected being:—

Kind of output	Value	Proportion of total
	£'000	Per cent.
Drugs, medicines and medicinal preparations	288	1.8
Dyes and dyestuffs	78	1.2
Coal tar products (including refined coal tar)... ..	271	3.6
Acetic acid (including acetic anhydride)	12	11.0
Collodion	9	64.3
Formaldehyde	10	25.0
Finishing materials for the Textile Trades	81	29.8
Boiler composition and disincrustants... ..	47	13.6
Brewers' finings	41	16.3
Other chemical products	895	3.1
TOTAL	1,732	3.1

Table II.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	179	3,300	1,470	3,207	459
25-49	154	5,152	2,308	5,313	434
50-99	117	7,360	2,867	7,869	364
100-199	78	9,245	4,482	10,669	420
200-299	23	5,620	2,962	5,528	536
300-399	15	4,966	3,019	5,201	581
400-499	7	3,183	1,717	3,099	554
500-749	13	7,146	3,728	7,706	484
750-999	5	4,034	2,361	4,385	538
1,000 and over... ..	10	18,755	11,634	24,634	472
TOTAL	601	68,761	36,548	77,611	471

Table III.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments†	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1 ...	1935 163	17,767	10,123	19,233	526
	1930 128	13,675	6,507	15,444	421
2 ...	1935 139	20,211	11,217	22,220	505
	1930 131	16,393	8,673	22,068	393
3 ...	1935 69	5,586	2,553	6,228	410
	1930 62	3,536	1,421	5,943	239
4 ...	1935 31	7,509	4,028	11,180	360
	1930 27	5,420	2,867	10,062	285
5 ...	1935 43	2,633	1,256	3,603	349
	1930 36	2,203	897	3,414	263
6 ...	1935 23	5,843	3,174	5,228	607
7 ...	1935 13	817	376	1,312	286
8 and 9 ...	1935 25	1,419	512	1,517	338
10 ...	1935 26	1,996	839	1,423	590
11 and 18 ...	1935 7	427	203	451	451
6 to 11 and 18	1935 94	10,502	5,104	9,931	514
	1930 84	7,468	3,045	8,079	377
12 and 13 ...	1935 9	817	386	771	500
	1930 14	701	271	762	355
14 ...	1935 31	1,392	630	1,914	329
	1930 31	1,586	586	1,931	304
15 and 17 ...	1935 22	2,344	1,251	2,531	494
	1930 21	1,671	718	2,772	259
TOTAL ...	1935 601	68,761	36,548	77,611	471
	1930 534	52,653	24,985	70,475	355

* For particulars see page xviii.

† Number of returns for 1930.

‡ Excluding Northern Ireland.

Table IV.—Sub-divisions of the industry

Group	Number of establishments*	Gross output	Value of characteristic products	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	£'000	No.	£
Drugs, medicines and medicinal preparations—	1935 199	19,692	17,210	11,922	21,677	550
	1930 170	16,015	13,764	8,340	19,194	435
Dyes and dyestuffs	1935 33	8,044	6,730	3,921	8,063	486
	1930 31	5,003	4,407	1,963	7,893	249
Coal tar products (other than dyes and dyestuffs)—	1935 77	5,226	2,993	1,293	4,057	319
	1930 80	5,373	2,496	1,506	4,890	308
Other chemical manufactures—	1935 292	35,799	...	19,412	43,814	443
	1930 253	26,262	...	13,176	38,498	342
TOTAL	1935 601	68,761	...	36,548	77,611	471
	1930 534	52,653	...	24,985	70,475	355

* Number of returns for 1930.

PRODUCTION

Table V A.—Total make of certain chemical products* (including goods made and used for further manufacturing purposes in the same works)

Kind of goods	Returned on schedules for					
	The Chemicals, Dyestuffs and Drugs Trades			All trades		
	1935		1934	1935		1934
	Quantity	Entries		Quantity	Entries	
Acids:—	Th. tons	No.	Th. tons	Th. tons	No.	Th. tons
Acetic ...	29.6	11	20.1	30.6	12	20.3
Hydrochloric (1.14 S.G.)	175.0	30	164.4	175.0	30	164.4
Nitric (as 100 per cent. acid) ...	71.9	12	70.2	72.4	13	71.6
Salicylic (including salicylates not elsewhere specified)	Th. lbs.		Th. lbs.	Th. lbs.		Th. lbs.
	5,307	8	4,504	5,307	8	4,504
Sulphuric (as 100 per cent. acid) ...	Th. tons		Th. tons	Th. tons		Th. tons
	669.2	55	631.3	876.7	92	795.4
Other acids ...	30.1	...	29.3	30.8	...	30.0
Aluminium compounds:—						
Sulphate of alumina	87.6	7	73.2	88.6	9	74.1
Barium compounds‡	§	...	§	56.5	...	43.2
Bleaching materials:						
Bleaching powder (chloride of lime)...	55.9	7		55.9	7	
Hydro-sulphite and like compounds ...	5.6	8		5.6	8	
Other sorts (including peroxides of sodium and hydrogen, perborates, percarbonates, per-sulphates, etc.) ...	51.8	16		52.1	17	
				Th. cwts.		Th. cwts.
				352	4	263
Cellulose acetate ...	§	...	§	Th. lbs.		Th. lbs.
	754	8	744	754	8	744
Chloroform ...	4,580	10	4,985	4,580	10	4,985
Ether, acetic (ethyl acetate) ...	Th. galls.		Th. galls.	Th. galls.		Th. galls.
	182.1	7	160.8	182.1	7	160.8
Ether, sulphuric ...	Th. cwts.		Th. cwts.	Th. cwts.		Th. cwts.
	216.1	4	188.9	216.1	4	188.9
Formaldehyde ...						
Gases, compressed (including liquefied and solidified):—						
Carbonic acid ...	340.1	8	220.8	419.1	15	220.8
Sulphur dioxide ...	158.0	5	131.9	158.0	5	131.9
	Th. lbs.		Th. lbs.	Th. lbs.		Th. lbs.
	128.6	11		133.0	13	
Iodine ...						
Iodides, not elsewhere specified ...	41.1	9		41.1	9	

Kind of goods	Returned on schedules for					
	The Chemicals, Dyestuffs and Drugs Trades			All trades		
	1935		1934	1935		1934
	Quantity	Entries		Quantity	Entries	
Lime, acetate of ...	Th. cwts.		Th. cwts.	Th. cwts.	Th. cwts.	
15.3	7	16.0	15.3	7	16.0	
Magnesium compounds ...	Th. tons		Th. tons	Th. tons	Th. tons	
23.0	20	20.7	23.0	21	20.8	
Methyl alcohol (synthetic or from wood distillation processes)	Th. galls.		Th. galls.	Th. galls.	Th. galls.	
2,722	4	2,431	2,722	4	2,431	
Potassium sulphate...	Th. cwts.		Th. cwts.	Th. cwts.	Th. cwts.	
33.5	7	38.7	33.5	7	38.7	
Sodium compounds: Carbonate (including soda crystals, soda ash and bicarbonate) and caustic soda ...	Th. tons		Th. tons	Th. tons	Th. tons	
1,317	...	1,174	1,357	...	1,212	
Chromate and bichromate ...	...		...	...	...
6.3	4	7.4	6.3	4	7.4	
Phosphate ...	...		...	...	...
4.1	7	3.2	4.1	7	3.2	
Sulphate (including salt cake) ...	...		...	...	...
106.8	36	105.2	106.8	36	105.2†	
Other sodium compounds ...	...		...	...	...
163.0	...	167.4	187.2	...	191.0	
Synthetic organic chemicals for tanning (except dyes) and for photographic purposes, not elsewhere specified ...	Th. cwts.		Th. cwts.	Th. cwts.	Th. cwts.	
66.6	6	60.8	66.6	6	60.8	
Tin salts ...	Th. tons		Th. tons	Th. tons	Th. tons	
13.9	8	14.2	15.7	9	15.8	
Zinc oxide ...	Th. lbs.		Th. lbs.	Th. lbs.	Th. lbs.	
47.4	10	38.8	48.0	11	40.1	
Fine chemicals not elsewhere specified: Re-agents...	...		...	...	...
659	12	628	659	12	628†	
Technical fine chemicals ...	...		...	...	...
6,712	12	8,508	6,712	12	8,508	
Synthetic perfumery chemicals and isolates and their derivatives|| ...	...		...	...	...
986	9	940	986	9	940†	
Medicinal fine chemicals ...	...		...	...	...
4,305	23	5,434	4,305	23	5,434	
Other fine chemicals ...	...		...	...	...
4,528	11	4,278	5,029	13	4,633†	

* In respect of the following products, the whole of the output manufactured was recorded as made for sale (Table V B) :—

Ammonium carbonate and bi-carbonate, bromides, cobalt salts, collodion, litharge, other lead compounds, potassium cyanide, potassium iodide, wood charcoal, acetate of iron.

¶ This figure is incomplete, see the Introductory paragraphs (page 261). With regard to sulphuric acid the total output in 1934 was, according to information supplied by the National Sulphuric Acid Association, 846,700 tons, the corresponding figure for 1935 being 892,700 tons.

† Corrected figure.

‡ Excluding ground barytes produced at mines and quarries, (see the Non-Metalliferous Mines and Quarries Report in Part IV).

§ Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

|| Including some synthetic essential oils.

Particulars of the total make of certain classes of coal tar products in 1935 are shown below. For the reason given in the Introductory paragraphs, corresponding particulars cannot be given for 1934.

Kind of goods	Returned on schedules for			
	The Chemicals, Dyestuffs and Drugs Trades		All trades	
	Quantity	Entries	Quantity	Entries
	Th. galls.	No.	Th. galls.	No.
Coal tar products (other than dyes and dyestuffs) :—				
Benzol, refined ...	11,642	28	49,402	98
Carbolic acid :—				
Crude ...	1,088	20	1,372	30
Crystal ...	70.9	6	79.7	...
Cresylic acid ...	4,508	24	5,167	34
Naphtha, in terms of crude naphtha...	2,648	44	4,314	111
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene	338.5	40	652.4	121
Pyridine...	147.3	20	155.3	23
Toluol, in terms of 90's toluol ...	1,179	21	3,304	39
Heavy coal tar oils :—				
Tar oil ...	46	...	619	28
Creosote oil ...	52,589	54	72,263	129
Anthracene oil ...	1,394	21	3,644	34
Other sorts ...	5,657	14	16,438	38
Unclassified ...	1,073	4	4,648	12
Total—Heavy coal tar oils ...	60,759	...	97,612	...

Table V B.—Principal products made for sale

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Drugs, medicines and medicinal preparations :—	Th. ozs.	£'000	No.	Th. ozs.	£'000
Quinine and quinine salts ...	2,463	259	10	2,564	253
Acetyl-salicylic acid (aspirin)	Th. lbs.			Th. lbs.	
1,466	175	8	1,243	152	
Salvarsan and neo-salvarsan and other organo-arsenic compounds of like medicinal application ...	7.9	107	3	6.7	93
Novocain, eucain and like local anaesthetics ...	35.3	70	6	33.8	65

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Drugs, medicines and medicinal preparations (<i>contd.</i>):—	Th. cwts.	£'000	No.	Th. cwts.	£'000
Ointments and liniments ...	55.9	708	111	47.6	653
Infants' and invalids' foods* :—					
Malted foods ...	...	2,276	20	}	2,063
Malt extract ...	Th. galls. 2,046	604	33		
	Th. cwts. 102.4	205	6		
Medicated wines ...	263.2	326	26	}	1,136
Other... ..	...	677	25		
Proprietary medicines, not elsewhere specified ...	...	4,601	103	...	4,226
Pills, medicated lozenges, capsules and tablets, not included above ...	...	3,307	109	...	3,180
Medicinal plasters ...	...	282	16	...	316†
Medicinal oils, not included elsewhere ...	Th. cwts. 2.2	58	15	1.2 Mill. int. units	43
Insulin and its salts ...	Th. cwts. 501.5	175	3	506.0	183
Health salts and salines ...	95.0	989	60	}	4,568
Other drugs and medicinal preparations, not elsewhere specified ...	...	3,712	...		
TOTAL—Drugs, medicines and medicinal preparations ...	...	18,531	...	...	16,940
Dyes and dyestuffs :—				Th. cwts.	
Dye intermediates made from coal tar primary products...	358.2	1,387	17	370.4	1,430
Finished dyestuffs obtained from coal tar :—					
Direct cotton colours (including union) ...	93.4	820	11	84.0	751
Acid wool colours ...	98.3	996	15	87.0	897
Chrome and mordant colours (including alizarine) ...	73.3	717	11	75.5	702
Basic colours ...	34.4	445	8	27.4	376
Sulphur colours ...	76.6	280	8	71.8	250
Dyestuffs for lake making ...	29.2	192	5	30.0	172
Oil, spirit and wax colours...	11.6	123	10	10.6	108
Indigo and vat colours ...	104.0	867	6	85.8	842
Other finished dyestuffs ...	30.9	423	16	30.2	405
Total—Finished dyestuffs	551.7	4,863	...	502.3	4,503
Extracts for dyeing :—					
Logwood ...	9.5	15	5	10.3†	17†
Other sorts (including fustic and cutch) ...	56.7	71	7	61.9	88
Extracts for tanning (solid or liquid) :—					
Quebracho ...	241.2	129	8	261.7	130
Other sorts ...	1,018.7	574	15	928.1	538
TOTAL—Dyes and dyestuffs ...	...	7,039	...	...	6,706

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Other coal tar products† :—	Th. cwts.	£'000	No.	Th. cwts.	£'000
Anthracene (excluding anthracene oil) ...	21.2	8	14	21.7	9
Benzol :—	Th. galls.			Th. galls.	
Crude ...	28,239	1,168	166	19,871	851
Refined ...	48,673	3,061	98	35,158	2,346
Carbolic acid :—					
Crude ...	1,301	126	29	1,091	123
Crystal ...	63.4	213	7	48.1	185
Cresylic acid... ..	4,967	381	33	4,391	335
Naphtha, in terms of crude naphtha ...	4,118	185	109	3,055	135
Naphtha, solvent ...	2,618	160	43	1,324†	88†
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene ...	Th. cwts. 652.0	189	121	Th. cwts. 566.6	146
Pyridine ...	155	23	23	151	32
Toluol φ ...	3,086	285	39	1,796	189
Heavy coal tar oils :—					
Tar oil ...	619	12	28	303**	5**
Creosote oil... ..	71,382	1,404	129	51,254	756
Anthracene oil ...	3,283	65	33	3,569	58
Other sorts... ..	16,332	326	38	11,700**	188**
Unclassified ...	4,648	73	12	7,090	161
Total—Heavy coal tar oils	96,264	1,880	...	73,916	1,168
Xylol† ...	690	72	13	182	19
Other tar acids† ...	992	50	9	502	25
Other coal tar products§ ...	...	188	...	...	192
Unclassified ...	...	7	1	279	29
TOTAL—Coal tar products	...	7,996	...	...	5,872
Other chemicals :—					
Acids :—	Th. tons			Th. tons	
Acetic ...	10.6	327	9	6.4	243
Hydrochloric (1.14 S.G.)...	156.6	504	30	148.0	468
Nitric (as 100 per cent. acid)	14.6	237	13	13.1	229
Salicylic (including salicylates not elsewhere specified) ...	Th. lbs. 2,652	157	8	Th. lbs. 2,313	141
Sulphuric (as 100 per cent. acid)† ...	Th. tons 599.0	1,958	83	Th. tons 540.1	1,811
Other acids... ..	23.6	1,033	...	22.5	973
Total—Acids ...	...	4,216	...	...	3,865
Aluminium compounds :—					
Sulphate of alumina ...	88.4	375	9	74.1	346
Alum (soda alum, potash alum and ammonia alum)	7.5	54	4	}	891
Other sorts (including aluminium oxide but excluding bauxite and abrasives and acetate of alumina)	64.6	877	13		
Total—Aluminium compounds ...	160.5	1,306	...	142.0	1,237

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Other chemicals (<i>contd.</i>):—	Th. tons	£'000	No.	Th. tons	£'000
Ammonium compounds:—					
Carbonate and bicarbonate	3.5	62	8	3.4	60
Ammonia liquor (in terms of 880 ammonia) ...	43.9	264	28	42.3	243
Other sorts (excluding ammonium sulphate) ...	34.8	454	28	28.0	392
Total—Ammonium compounds ...	82.2	780	...	73.7	695
Barium compounds (including natural sulphate and blanc fixe) ...	28.3	189	...	18.9	155
Bleaching materials:—					
Bleaching powder (chloride of lime) ...	55.4	278	7	103.0	1,193
Hydro-sulphite and like compounds ...	5.5	291	8		
Other sorts (including peroxides of sodium and hydrogen, perborates, percarbonates, persulphates, etc.) ...	48.4	648	17		
Bromides, not elsewhere specified (excluding ethyl bromide) ...	Th. cwts.			Th. cwts.	
Camphor ...	9.2	66	7	9.2	76
Chloroform ...	Th. lbs.			Th. lbs.	
Cobalt salts ...	4.5	34	4	4.4	37
Collodion ...	741	104	8	738	106
Copper sulphate ...	Th. cwts.			Th. cwts.	
Ether, acetic (ethyl acetate)	2.7	47	5	1.7	37
Ether, sulphuric ...	Th. galls.			Th. galls.	
Formaldehyde ...	5.1	6	26	4.2	6
Gases, compressed (including liquefied and solidified):—	Th. tons			Th. tons	
Carbonic acid †	34.9	447	12	47.2	595
Sulphur dioxide ...	Th. lbs.			Th. lbs.	
Other ...	3,833	104	8	3,639	104
Iodine ...	Th. galls.			Th. galls.	
Iodides, not elsewhere specified ...	180.7	84	7	160.6	79
Lead compounds:—	Th. cwts.			Th. cwts.	
Litharge ...	200.2	202	4	175.0	191
Other sorts (including red and orange lead, but not acetate of lead) ...	382.1	281	14	204.0	165
Lime, acetate of ...	66.4	38	4	45.6	29
Magnesium compounds:—	...	1,704	...	...	1,517
Sulphate ...	Th. lbs.			Th. lbs.	
Other sorts, not elsewhere specified ...	132.6	26	13	202.8	58
Mercurial compounds, not elsewhere specified ...	41.1	16	9	...	...
Other fine chemicals ...	Th. cwts.			Th. cwts.	
Litharge ...	141.8	151	7	127.6	117
Other sorts (including red and orange lead, but not acetate of lead) ...	414.4	421	23	408.7	382
Lime, acetate of ...	12.3	7	6	13.3	6
Magnesium compounds:—	Th. tons			Th. tons	
Sulphate ...	10.6	79	8	20.6	243
Other sorts, not elsewhere specified ...	10.7	195	17	...	...
Mercurial compounds, not elsewhere specified ...	5.1	110	8	...	...

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Other chemicals (<i>contd.</i>):—	Th. galls.	£'000	No.	Th. galls.	£'000
Methyl alcohol (synthetic or from wood distillation processes) ...	2,709	212	4	2,428	186
Potassium compounds:—	Th. cwts.			Th. cwts.	
Cyanide ...	1.1	8	4	1.1	8
Iodide ...	2.9	83	11	2.8	94
Sulphate ...	33.5	14	7	38.0	18
Other sorts, including chloride, chromate and bichromate † ...	174.7	262	...	152.3**	238**
Total — Potassium compounds ...	212.2	367	...	194.2	358
Sodium compounds:—	Th. tons			Th. tons	
Carbonate (including soda crystals, soda ash and bicarbonate) and caustic soda ...	1,102.1	6,852	36	1,020.5	6,551
Chromate and bichromate	6.1	197	4	7.3	228
Phosphate ...	4.0	53	7	3.1	45
Sulphate (including salt cake and glauber salts) ...	97.0	224	36	93.5	236
Other sodium compounds ...	166.1	1,799	...	171.5	1,748
Total — Sodium compounds ...	1,375.3	9,125	...	1,295.9	8,808
Synthetic organic chemicals for tanning (except dyes) and for photographic purposes, not elsewhere specified ...	Th. cwts.			Th. cwts.	
Tartrates, not elsewhere specified ...	65.4	79	6	60.1	75**
Tin salts ...	3.8	15	4	4.2	15
Wood distillation products (except acetic acid, acetone, acetic anhydride, acetate of lime, methyl alcohol and naphtha):—	15.1	98	9	15.1	78
Charcoal (other than decolorising and activated carbons) ...	Th. tons			Th. tons	
Acetate of iron ...	7.1	51	8	7.1	51
Other sorts, including acetates of lead and of alumina	Th. galls.			Th. galls.	
Zinc oxide ...	86.2	4	4	103.3	4
Fine chemicals, not elsewhere specified:—	...	43	12	...	22
Reagents ...	Th. tons			Th. tons	
Technical fine chemicals ...	48.0	787	11	40.0	691
Synthetic perfumery chemicals and isolates and their derivatives †† ...	Th. lbs.			Th. lbs.	
Medicinal fine chemicals ...	659	40	12	623**	35
Other fine chemicals ...	6,675	318	12	8,505	395
Total — Fine chemicals, not elsewhere specified	964	213	9	526**	139
Total — Fine chemicals, not elsewhere specified	4,271	676	23	5,396	662
Total — Fine chemicals, not elsewhere specified	5,028	259	13	4,633**	238
Total — Fine chemicals, not elsewhere specified	17,597	1,506	...	19,683	1,469

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Other chemicals (<i>contd.</i>):—	Th. lbs.	£'000	No.	Th. lbs.	£'000
Amyl acetate	1,117	41	6	} ...	6,616**
	Th. tons				
Arsenic compounds... ..	1.6	43	8		
	Th. lbs.				
Butyl acetate	5,726	190	3		
	Th. galls.				
Ethyl chloride	26.4	28	3		
Chemicals, not elsewhere specified ... ..	...	7,130	...		
TOTAL—Other chemicals	...	31,549	...	...	29,266
Other chemical products:—	Th. cwts.			Th. cwts.	
Sulphur	363.9	113	8	313.3	103
	Th. lbs.			Th. lbs.	
Essential oils (other than turpentine)††	329.4	138	18	309.3	108
	Th. tons			Th. tons	
Sulphonated oils	8.8	172	17	6.3†	128†
Finishing materials for the Textile Trades, other than oils (including gums, starch, etc.), not elsewhere specified	...	228	22	...	153**
Flavouring essences, including colours for the Confectionery, etc., Trades††	...	1,183	100	...	1,171
Boiler composition and disincrustants ... ..	...	143	29	...	77
Brewers' finings, etc.†	...	124	12	...	85
Bituminous coverings (including insulating compounds and cements), other than road dressings†	18.7	212	19	20.2	211
	Th. cwts.			Th. cwts.	
Carbons, decolorising and activated†	114.9	120	4	117.4	110
Other descriptions ... ..	...	93	...	...	60
TOTAL—Other chemical products	...	2,526	...	...	2,206
Work done on commission ...	...	98††	35	...	75††
TOTAL—PRINCIPAL PRODUCTS	...	67,739	...	...	61,065

* Patent and proprietary foods not specifically medicinal are dealt with in the Report on the Preserved Foods Trade (*see* page 85).

† So far as recorded separately.

‡ The output recorded under these headings for 1934 is incomplete (*see* Introductory paragraphs, page 261).

φ Recorded in terms of 90's toluol.

** Corrected figure.

§ Excluding ammonium sulphate (*see* the Fertiliser, etc. Trades, page 309) and pitch and coal tar (*see* the Coke and By-Products Trade, page 517).

|| Excluding ground barytes produced at mines and quarries (*see* the Non-metaliferous Mines and Quarries Report in Part IV).

¶ Not recorded separately.

†† Including some synthetic essential oils.

‡‡ Amount received.

The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A.

Kind of output	1935			1934*	
	Quantity	Value	Entries	Quantity	Value
Drugs, medicines and medicinal preparations:—	Th. cwts.	£'000	No.	Th. cwts.	£'000
Ointments and liniments ...	7.2	67	10	7.5	57
Infants' and invalids' foods:—	Th. galls.			} ...	9
Malt extract... ..	18	9	10		
Other... ..	...	16	6		
Proprietary medicines, not elsewhere specified ... ..	...	72	7	...	63
Pills, medicated lozenges, capsules and tablets, not included above ... ..	...	10	5	...	6
Medicinal oils, not included elsewhere	—	—	—	...	1
Health salts and salines ...	Th. cwts.	5	4	} ...	83
Other drugs and medicinal preparations, not elsewhere specified ... ..	...	74	...		
TOTAL—Drugs, medicines and medicinal preparations	...	253	...	...	219
Coal tar products (other than dyes and dyestuffs):—					
Anthracene (excluding anthracene oil)	2.8	1	5	2.7	1
	Th. galls.			Th. galls.	
Benzol, crude and refined ...	64,748	3,478	...	43,815	2,452
Carbolic acid:—					
Crude... ..	284	28	10	138	15
	Th. cwts.				
Crystal	8.8	28	...	—	—
	Th. galls.				
Cresylic acid	659	50	10	221	14
Naphtha, in terms of crude naphtha	1,665	90	67	684	27
	662	35	21	241	17
Naphtha, solvent	Th. cwts.			Th. cwts.	
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene	313.8	76	81	215.5	40
	Th. galls.			Th. galls.	
Pyridine	8	2	3	6	1
Toluol	2,125	194	18	1,092	113
Heavy coal tar oils:—					
Tar oil	573	11	26	48	1
Creosote oil	19,675	400	75	6,604	85
Anthracene oil	2,251	41	13	2,650	39
Other sorts	10,780	195	24	6,011	83
Unclassified	3,575	53	8	6,160	148
Total—Heavy coal tar oils	36,854	700	...	21,473	356
Xylol	559	59	5	} ...	30
Other and unclassified coal tar products... ..	...	17	...		
TOTAL—Coal tar products	...	4,758	...	...	3,066

Kind of output	1935			1934*	
	Quantity	Value	Entries	Quantity	Value
Other chemicals :—					
Acids :—	Th. tons	£'000	No.	Th. tons	£'000
Nitric	0.5	7	1	1.4	22
Sulphuric	68.8	192	31	38.9	116
Acetic	1.0	13	1	0.9	29
Other	0.7	19	...		
Aluminium compounds ...	0.9	5	2	0.9	5
Ammonium compounds ...	2.7	18	...	2.6	5
Barium compounds (including natural sulphate and blanc fixe)	6.8	43	4	6.4	38
Bleaching materials	0.3	4	1	0.5	7
Gases, compressed :—	Th. cwts.			Th. cwts.	
Carbonic acid	79.1	50	7	—	—
Other gases... ..	...	22	2	...	20
Iodine and iodides	4.4	1	2	14.0	4
Lead compounds (excluding acetate of lead)	330.9	345	...	308.8	292
Magnesium compounds, other sorts	0.1	1	1	0.1	1
Potassium compounds, other sorts	77.0	92	6	49.8	50
Sodium compounds :—	Th. tons			Th. tons	
Carbonate and caustic ...	26.1	300	7	24.6	310
Other sorts... ..	24.2	265	...	23.6	247
Tin salts	1.8	12	1	1.6	10
Wood distillation products, other sorts ... ..	...	9	2	...	9
Zinc oxide	0.6	9	1	1.3	24
Research and other fine chemicals	501	68	2	333	44
Miscellaneous chemicals ...	...	752	...	...	842
TOTAL—Other chemicals	...	2,227	...	...	2,075
Other chemical products :—	Th. lbs.			Th. lbs.	
Essential oils	28.2	29	2	6.8	2
Sulphonated oils	0.5	11	4	1.3	24
Finishing materials for the Textile Trades ... ..	...	8	5	...	14
Flavouring essences, including colours for the Confectionery, etc., Trades ... ..	...	104	37	...	127
Boiler compositions and disinfectants ... ..	...	34	8	...	4
Brewers' finings ... ..	...	37	5	...	5
Bituminous coverings, other than road dressings... ..	16.9	185	14	18.2	182
Other descriptions ... ..	...	93	...	...	59
TOTAL—Other chemical products	...	501	...	...	417
TOTAL ... ..	...	7,739	...	...	5,777

* A number of the figures are incomplete (see the Introductory paragraphs, page 261).

Table V C.—Output for sale of certain principal products, 1924-1935

Kind of output	1924	1930	1933	1934	1935
Drugs, medicines and medicinal preparations ... } £'000	15,156	15,077	16,496	16,940	18,531
Dyes and dyestuffs :—					
Dye intermediates made from coal tar primary products ... } Th. cwts. £'000	203.7 1,189	257.1 921	315.4 1,204	370.4 1,430	358.2 1,387
Finished dye-stuffs obtained from coal tar... } Th. cwts. £'000	374.5† 3,972†	356.1 2,764	458.3 4,104	502.3 4,503	551.7 4,863
Extracts for dyeing ... } Th. cwts. £'000	87.0‡ 171	66.2 97	58.6 88	72.2 105	66.2 86
Extracts for tanning (solid or liquid) ... } Th. cwts. £'000	1,498‡ 908	1,278 847	1,046 590	1,190 668	1,260 703
Total — Dyes and dyestuffs } £'000	6,240	4,629	5,986	6,706	7,039
Other coal tar products :—					
Benzol, crude and refined... } Th. galls. £'000	51,404 2,805	52,433 3,376	}	}	76,912 4,229
Carbolic acid :—					
Crude ... } Th. galls. £'000	...	1,647 137	}	}	1,301 126
Crystal ... } Th. cwts. £'000	335	51.7 154			63.4 213
Heavy coal tar oils ... } Th. galls. £'000	87,005 2,671	83,979 1,213	}	}	96,264 1,880
Cresylic acid ... } Th. galls. £'000	...	4,871 437			4,967 381
Other coal tar products|| ... } £'000	1,390	769			1,167
TOTAL—Coal tar products ... } £'000	7,201	6,086	4,637§	5,872§	7,996
Other chemicals :—					
Acids :—					
Hydrochloric (1.14 S.G.) } Th. tons £'000	207.2 708	159.5 480	134.9 429	148.0 468	156.6 504
Salicylic (including salicylates not elsewhere specified) ... } Th. lbs. £'000	1,185 82	1,447 78	1,944 119	2,313 141	2,652 157
Sulphuric (as 100 per cent. acid) ... } Th. tons £'000	777.4* 2,622	560.9 1,884	455.4§ 1,588§	540.1§ 1,811§	599.0 1,958
Other... } Th. tons £'000	21.6 1,026	31.7 1,315	47.4 1,449	42.0 1,445	48.8 1,597
Aluminium compounds } Th. tons £'000	79.6 572	85.4 665	109.4 999	142.0 1,237	160.5 1,306
Ammonium compounds (including ammonia liquor, but not ammonium sulphate) } Th. tons £'000	36.9 730	38.5 738	59.0 579	73.7 695	82.2 780

Kind of output	1924	1930	1933	1934	1935
Other Chemicals (<i>contd.</i>) :—					
Barium compounds (including natural sulphate and blanc fixe)¶ ...	Th. tons 18.2 £'000 200	33.5 165	19.4 160	18.9 155	28.3 189
Bleaching materials	Th. tons 97.2‡ £'000 1,143	107.4‡ 971	96.2 1,119	103.0 1,193	109.3 1,217
Copper sulphate	Th. tons 38.0 £'000 801	39.1 835	52.4 686	47.2 595	34.9 447
Formaldehyde	Th. cwt. 11.4 £'000 30	48.5 71	138.9 168	175.0 191	200.2 202
Lead compounds (excluding acetate of lead) ...	Th. cwt. 543.0‡ £'000 1,111	381.0 570	448.8 476	536.3 499	556.2 572
Magnesium compounds	Th. tons 21.1 £'000 313	12.3 214	15.9 237	20.6 243	21.3 274
Potassium compounds	Th. cwt. 163.0‡ £'000 506	119.5 365	155.4§ 370§	194.2§ 358§	212.2 367
Sodium compounds	Th. tons 1,516 £'000 10,282	1,141 8,171	1,221 8,800	1,296 8,808	1,375 9,125
Zinc oxide ...	Th. tons ... £'000 422	18.3 ...	37.6 670	40.0 691	48.0 787
Fine chemicals, not elsewhere specified ...	Th. lbs. 6,334	...	16,820	19,683	17,597
Other chemical products and work done ...	£'000 2,321	1,067	1,256	1,469	1,506
Other chemical products and work done ...	£'000 7,197	8,050	9,267	10,561	10,561
TOTAL—PRINCIPAL PRODUCTS	£'000 57,378	53,093	56,336§	61,065§	67,739

† Including some dyes purchased and blended.

‡ Including an estimate for output returned by value only.

§ The particulars recorded for these years are defective (*see* Introductory paragraphs, page 261).

¶ Excluding sulphate of ammonia, pitch and coal tar.

* Recorded at 1.7 specific gravity.

¶ Excluding ground barytes produced at mines and quarries.

Table VI.—Average values of goods produced, exported and imported

Kind of goods	Production (at factory)		1935 as a percentage of 1934	Exports (f.o.b.)		Imports (c.i.f.)	
	Average value			Average value	Average value		
	1935	1934	1935	1934	1935	1934	
Drugs, medicines and medicinal preparations :—	s. per oz.	s. per oz.	Per cent.	s. per oz.	s. per oz.	s. per oz.	s. per oz.
Quinine and quinine salts ...	2.10	1.97	106.6	2.13	2.21	1.64	1.67
Acetyl - salicylic acid (aspirin) ...	s. per lb.	s. per lb.	97.8	s. per lb.	s. per lb.	s. per lb.	s. per lb.
Salvarsan and neo-salvarsan and other organo - arsenic compounds of like medicinal application ...	2.39	2.44	97.8	7.23	6.79	1.97	3.17
Novocain, eucaïn and like local anaesthetics	£ per lb.	£ per lb.	97.5	£ per lb.	£ per lb.	£ per lb.	£ per lb.
	13.57	13.92	97.5	*	*	*	*
Ointments and liniments	£ per cwt.	£ per cwt.	92.3	£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Medicinal oils ...	12.67	13.74	92.3	10.38	9.43	...	...
	26.50	36.13	73.3	5.04	7.08	3.69	2.84
Menthol ...	s. per lb.	s. per lb.	101.3	s. per lb.	s. per lb.	s. per lb.	s. per lb.
Dyes and dyestuffs :—	8.13	8.03	101.3	8.24	8.06	9.83	8.24
Dye intermediates made from coal tar primary products ...	£ per cwt.	£ per cwt.	100.3	£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Finished dyestuffs obtained from coal tar	3.87	3.86	100.3	5.63	5.90	19.39	17.40
Extracts for dyeing :—	8.81	8.97	98.3	12.16	11.72	28.02	26.66
Logwood ...	1.61	1.66	97.4	3.13	3.31	3.31	3.27
Fustic ...	2.00	1.90	105.7	4.05	3.62	1.40	1.62
Other sorts ...	1.18	1.36	86.5				
Extracts for tanning :—	0.53	0.50	107.0	0.74	0.72	0.63	0.59
Quebracho ...	0.56	0.58	97.3	0.91	0.94	0.69	0.70
Other sorts ...	s. per cwt.	s. per cwt.		s. per cwt.	s. per cwt.	s. per cwt.	s. per cwt.
Other coal tar products :—	7.65	8.37	91.4	6.24	6.50	21.42	17.02
Anthracene ...	s. per gall.	s. per gall.	96.5	s. per gall.	s. per gall.	s. per gall.	s. per gall.
Benzol :—	0.83	0.86	96.5	*	*	*	*
Crude ...	1.26	1.33	94.2				
Refined ...	1.10	1.16	94.6	1.94	2.34	0.93	0.84
Total ...	1.94	2.27	85.5	2.33	2.42	—	...
Carbolic acid :—	£ per cwt.	£ per cwt.	87.7	£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Crude ...	3.36	3.83	87.7	3.54	4.13	3.46	3.30
Crystal ...							

Kind of goods	Production (at factory)		Exports (f.o.b.)	Imports (c.i.f.)			
	Average value			Average value	Average value		
	1935	1934	1935	1934	1935	1934	
Other coal tar products (contd.) :—	s. per gall.	s. per gall.	Per cent	s. per gall.	s. per gall.	s. per gall.	s. per gall.
Cresylic acid ...	1.53	1.53	100.6	1.78	1.77	2.65	2.78
Naphtha ...	0.90	0.88	101.7	*	*	*	*
Naphtha solvent ...	1.22	1.33	91.7				
Naphthalene ...	5.81	5.16	112.7	7.72	6.60	8.60	9.16
Pyridine ...	3.00	4.21	71.3	*	*	*	*
Toluol ...	1.84	2.11	87.4				
Heavy coal tar oils :—	d. per gall.	d. per gall.		d. per gall.	d. per gall.	d. per gall.	d. per gall.
Tar oil ...	4.80	4.14	116.0	*	*	*	*
Creosote oil ...	4.72	3.54	133.3				
Anthracene oil ...	4.78	3.89	122.6				
Other ...	4.79	3.84	124.7				
Total ...	4.69	3.79	123.7	5.88	4.19	6.37	9.55
Xylol ...	2.08	2.13	97.8	*	*	*	*
Other chemicals :—	£ per cwt.	£ per cwt.		£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Acetic anhydride ...	3.60	3.60	100.2	4.71	...	2.68	2.68
Acetone ...	58.30	55.17	105.7	72.54	78.90	43.39	44.54
Acids :—	£ per cwt.	£ per cwt.		£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Acetic... ..	30.82	38.16	80.8	39.42	46.64	29.22	32.26
Boric ...	1.38	1.34	103.0	1.54	1.57	0.99	0.98
Citric ...	4.33	3.42	126.7	4.14	3.39	3.82	2.85
Formic ...	2.28	2.26	100.8	2.09	2.11	2.42	1.35
Hydrochloric... ..	3.21	3.16	101.7	*	*	*	*
Lactic... ..	1.19	1.04	113.8	5.26	5.28	1.26	1.29
Nitric... ..	16.27	17.49	93.0	29.75	29.21	13.44	13.31
Pyrogallic ...	6.03	6.27	96.2	*	*	*	*
Salicylic (including salicylates not elsewhere specified) ...	1.19	1.22	97.1	1.45	1.61	1.67	1.41

Kind of goods	Production (at factory)		Exports (f.o.b.)	Imports (c.i.f.)			
	Average value			Average value	Average value		
	1935	1934	1935	1934	1935	1934	
Other chemicals (contd.) :—	£ per ton	£ per ton	Per cent.	£ per ton	£ per ton	£ per ton	£ per ton
Acids (contd.) :—	£ per cwt.	£ per cwt.		£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Sulphuric	3.27	3.35	97.5	10.92	10.45	8.43	11.20
Tartaric	4.93	4.94	99.9	4.66	4.93	4.21	4.16
Aluminium compounds :—	£ per ton	£ per ton		£ per ton	£ per ton	£ per ton	£ per ton
Alum	7.22	6.88	105.1	7.64	7.59	...	...
Alumina (oxide of aluminium) ...	15.33	15.36	99.8	13.33	13.22	...	...
Sulphate of alumina	4.25	4.68	90.9	4.10	4.40	2.81	3.63
Ammonia liquor	6.03	5.73	105.1	25.82	27.33	...	...
Ammonium compounds :—	£ per cwt.	£ per cwt.		£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Carbonate and bicarbonate	17.74	17.74	100.0	20.25	21.60	...	...
Chloride (muriate) ...	14.36	14.91	96.4	15.32	16.33	10.12	10.82
Arsenic compounds ...	27.54	24.79	111.1	...	...	12.78	13.43
Barium binocide ...	29.13	27.76	104.9	37.91	34.01	...	...
Bleaching materials :—	£ per lb.	£ per lb.		£ per lb.	£ per lb.	£ per lb.	£ per lb.
Bleaching powder (chloride of lime) ...	5.01	4.96	101.0	5.51	5.34	4.70	5.46
Hydro-sulphite and like compounds ...	52.87	67.79	78.0	53.85	62.96	48.13	54.80
Borax	0.63	0.66	95.8	1.18	1.37	0.53	0.53
Bromides, excluding ethyl bromide ...	7.16	8.31	86.1	5.83	5.63	4.80	4.82
Calcium carbide ...	1.34	1.36	98.7	1.42	1.35	0.55	0.56
Calcium chloride ...	0.21	0.20	102.7	0.21	0.20	0.17	0.16
Camphor	7.58	8.36	90.7	18.84	13.82	7.42	7.17
Chloroform	2.82	2.86	98.5	3.37	3.80	...	...
Cobalt oxide	37.36	34.44	108.5	23.77	22.56	23.95	24.18
Cobalt salts	17.08	21.51	79.4	*	*	*	*
Collodion	1.10	1.33	82.3	1.90	1.80	...	...
Copper sulphate ...	12.81	12.62	101.5	13.64	13.90	16.71	25.21
Ether, acetic (ethyl acetate)	0.54	0.57	95.3	1.60	1.57	...	...
Ether, sulphuric ...	9.36	9.77	95.8	16.14	17.66	...	...

Kind of goods	Production (at factory)		1935 as a per- centage of 1934	Exports (f.o.b.)		Imports (c.i.f.)	
	Average value			Average value		Average value	
	1935	1934	1935	1934	1935	1934	
Other chemicals (contd.) :—	s.	s.	Per cent.	£	£	£	£
Fine chemicals :—	per lb.	per lb.		per cwt.	per cwt.	per cwt.	per cwt.
Reagents	1.21	1.04	117.1				
Technical	0.95	0.93	102.6				
Synthetic perfumery chemicals and iso- lates	4.42	5.29	83.5	*	*	*	*
Medicinal	3.17	2.45	129.1				
Research	2.35	2.81	83.5				
	£	£					
Formaldehyde ...	per cwt.	per cwt.	92.6	1.34	1.52	0.79	0.84
	s. per cwt.	s. per cwt.					
Gases, compressed :—							
Carbonic acid ...	14.73	16.19	91.0	*	*	*	*
Sulphur dioxide ...	11.45	12.61	90.8				
	£	£					
Ammonia, anhydrous	per cwt.	per cwt.	110.0	2.86	2.48	2.13	2.16
	d. per cu. ft.	d. per cu. ft.					
Acetylene	1.07	1.09	98.5				
	d.	d.					
Nitrous oxide ...	per gall.	per gall.	108.5	*	*	*	*
	d. per cu. ft.	d. per cu. ft.					
Oxygen	0.21	0.21	98.1				
	s.	s.					
Iodine and iodides, not elsewhere specified ...	per lb.	per lb.	85.7	4.38	6.37	3.88	3.97
	£	£		£	£	£	£
Lead compounds :—	per cwt.	per cwt.	116.0	1.22	1.25	0.99	0.95
Litharge	1.07	0.92					
Other, including red and orange lead, but not acetate of lead...	1.01	0.93	108.6	1.15	1.19	0.92	0.91
	£	£		£	£	£	£
Lime, acetate of ...	per ton	per ton	110.7	18.06	23.59	11.56	11.23
Magnesium compounds	12.83	14.50	88.5	23.13	24.47	3.93	4.04
	s.	s.		s.	s.	s.	s.
Methyl alcohol ...	per gall.	per gall.	102.1	3.02	3.71	2.63	2.47
Potassium compounds :—	per cwt.	per cwt.		per cwt.	per cwt.	per cwt.	per cwt.
Chloride	8.79	10.11	87.0	8.39	...	6.22	6.60
	£	£		£	£	£	£
Chromate and bichro- mate... ..	per cwt.	per cwt.	91.8	2.13	2.31	1.74	1.76
Cyanide	7.37	7.17	102.7	*	*	*	*
Ferro- and ferri-cyan- ides	3.91	3.72	105.2	5.56	4.96	3.20	3.08
Iodide	28.98	34.12	84.9	33.36	35.59	29.09	33.82

Kind of goods	Production (at factory)		1935 as a per- centage of 1934	Exports (f.o.b.)		Imports (c.i.f.)	
	Average value			Average value		Average value	
	1935	1934	1935	1934	1935	1934	
Other chemicals (contd.) :—	s.	s.	Per cent.	s.	s.	s.	s.
Potassium sulphate ...	per cwt.	per cwt.	89.9	7.28	10.15	7.89	7.27
	s.	s.					s.
Rare earth compounds :	per lb.	per lb.	105.5	...	...	...	per lb.
Thorium nitrate ...	7.63	7.23					
Other rare earth com- pounds (including cerium fluoride) ...	1.57	1.80	87.7	...	...	...	4.44
Silver nitrate	27.52	20.66	133.2	*	*	*	*
	£	£		£	£	£	£
Sodium compounds :—	per ton	per ton		per ton	per ton	per ton	per ton
Carbonate	5.05	5.30	95.3	4.82	5.11	6.21	6.11
Caustic	9.75	10.29	94.8	10.31	11.84	13.75	11.93
Chromate and bichro- mate... ..	32.16	31.16	103.2	33.63	35.03	26.68	28.00
Cyanide	65.13	71.24	91.4	64.29	72.49	49.28	47.07
Ferro- and ferri-cyan- ides	39.65	39.25	101.0	*	*	*	*
Nitrate	6.57	6.61	99.4	6.71	7.14	4.31	4.16
Nitrite	15.70	14.99	104.3	14.21	13.54	11.06	11.48
Phosphate	13.28	14.26	93.1	31.93	38.66	9.54	9.68
Silicate	9.50	9.37	101.5	6.51	6.08	...	...
Sulphate	2.31	2.52	91.7	1.80	2.03	2.78	2.89
Synthetic organic chemicals for tanners' use	per cwt.	per cwt.	100.3	*	*	*	*
Tartar, cream of ...	0.88	0.88					
Tartrates, not else- where specified ...	3.70	3.68	100.7	3.54	3.75	3.06	3.15
	s.	s.		s.	s.	s.	s.
Tin salts	4.02	3.58	112.2	4.25	3.16	...	...
Tin oxide	6.50	5.21	124.9	*	*	*	*
Wood distillation pro- ducts :—	per ton	per ton	96.3	11.65	11.18	10.96	11.19
Charcoal	11.05	11.48		£	£	£	£
Acetate of lead ...	7.13	7.18	99.3	per ton	per ton	per ton	per ton
	33.30	32.05	103.9	*	*	*	*
	s.	s.		34.82	35.59	24.60	25.68
Acetate of iron ...	per gall.	per gall.	106.9	*	*	*	*
Acetate of alumina ...	0.74	0.99	74.7				
	£	£					
Zinc oxide	per ton	per ton	95.0	18.06	19.17	16.05	18.71
Zinc sulphate	16.39	17.25		*	*	*	*
Sulphur	8.93	8.78	101.8	11.13	12.61	4.50	4.47
	s.	s.		s.	s.	s.	s.
Essential oils	per lb.	per lb.	119.2	7.30	7.60	5.03	4.56
Carbons, decolorising and activated :—	per cwt.	per cwt.		per cwt.	per cwt.	per cwt.	per cwt.
Animal	0.77	0.75	101.8	1.31	1.00	...	0.85
Other	2.28	2.30	99.2	2.67	3.05	2.80	2.98

* Not recorded separately.

Table VII.—Volume of Production, 1924-1935

Kind of output	Total production			Production index (1935 = 100)			
	1935 as returned	1934		1924	1930	1933	1934
		As returned	At 1935 average values				
	£'000	£'000	£'000	Per cent.	Per cent.	Per cent.	Per cent.
Drugs, medicines and medicinal preparations							
Dyes and dyestuffs ...	17,791*	16,210*	16,100	67	72	85	91
Coal tar products† ...	7,039	6,706	6,718	73	71	89	95
Other chemicals:—	7,996	5,872	5,793	72	72	72†	91†
Acids:—							
Acetic ...	327	243	207	25	44	81	63
Hydrochloric... ..	504	468	476	131	101	86	94
Sulphuric	1,958	1,811	1,783	101	95	81†	96†
Nitric	237	229	213	} 54 {		45	88
Other	1,190	1,114	1,159			78	100
Aluminium compounds	1,306	1,237	1,200	41	49	73	92
Ammonium compounds (including liquor ammonia) ...	780	695	681	37	42	70†	89†
Barium compounds ...	189	155	146	§	126	80	77
Bleaching materials (bleaching powder, hydrosulphites, per- oxides, etc.) ...	1,217	1,193	1,110	61	80	81	91
Carbonic acid gas, com- pressed	281	165	155	33	47	59†	67†
Chloroform	104	106	104	74	83	91	100
Copper sulphate ...	447	595	604	108	112	150	135
Formaldehyde ...	202	191	177	6	24	70	88
Iodine and iodides, not elsewhere specified ...	42	58	50	113	106	110	116
Lead compounds ...	572	499	551	93	68	75	96
Magnesium compounds	274	243	213	99	57	74	78
Potassium compounds	367	358	332	139	69	91†	96†
Sodium compounds ...	9,125	8,808	8,469	99	79	88	93
Synthetic organic chemicals for tanning and for photographic purposes	79	75	72	} 94 {		103	77
Zinc oxide	787	691	656			38	78
Fine chemicals, not elsewhere specified ...	1,506	1,469	1,653	} 32 {		61	67
Other chemicals ...	10,055	8,863	8,767			52	72
Total—Other chemicals	31,549	29,266	28,778	64	67	80†	92†
Other chemical products	2,526	2,206	2,188	66	66	71†	90†
Work done on commission	98	*75	74	52	42	109	76
TOTAL	66,999*	60,335*	59,651	67	69	82†	92†

* Excluding estimated Excise duty.

† The aggregate for the base year has been adjusted in calculating the indices for these years (see Introductory paragraphs, page 261).

‡ Excluding coal tar (crude and refined) and pitch.

§ Included with *Other chemicals*.

Table VIII.—Production in relation to Exports and Imports

Kind of goods	Produc- tion	Exports	Propor- tion of produc- tion exported	Retained imports	Avail- able for use in the United Kingdom	Share of home market held by British goods
	Th. ozs.	Th. ozs.	Per cent.	Th. ozs.	Th. ozs.	Per cent.
Drugs, medicines and medicinal preparations:						
Quinine and qui- nine salts ... { 1935	2,463	1,790	72.7	1,231	1,904	35.4
... { 1934	2,564	1,247	48.6	870	2,187	60.2
Acetyl - salicylic acid (aspirin) ... { 1935	1,466	275	18.7	13	1,204	99.0
... { 1934	1,243	221	17.8	32	1,054	96.9
Ointments and liniments ... { 1935	55.9	6.7	12.0	0.4	49.6	99.3
... { 1934	47.6	6.3	13.3	0.1	41.4	99.7
	Value (at factory)	Value (f.o.b.)		Value (c.i.f.)		
	£'000	£'000		£'000		
Proprietary medi- cines, not else- where specified { 1935	4,601	1,218	...	549	...	...
... { 1934	4,226	1,151	...	514	...	...
Other drugs and medicinal prepa- rations, not else- where specified* { 1935	8,700	1,464	...	505	...	...
... { 1934	8,457	1,434	...	438	...	...
Dyes and dyestuffs:—	Th. cwts.	Th. cwts.		Th. cwts.	Th. cwts.	
Dye intermedi- ates made from coal tar primary products ... { 1935	358.2	19.1	5.3	10.9	350.0	96.9
... { 1934	370.4	17.9	4.8	10.4	362.9	97.1
Finished dyestuffs obtained from coal tar... { 1935	551.7	101.3	18.4	41.9	492.3	91.5
... { 1934	502.3	89.6	17.8	47.2	459.9	89.7
Extracts for dyeing:—						
Logwood ... { 1935	9.5	1.4	14.3	22.1	30.2	26.9
... { 1934	10.3	1.2	11.5	24.2	33.3	27.3
Other sorts (in- cluding fustic and cutch) ... { 1935	56.7	5.0	8.9	29.9	81.6	63.4
... { 1934	61.9	5.7	9.2	25.3	81.5	69.0
Extracts for tanning:—						
Quebracho ... { 1935	241.2	103.9	43.1	381.8	519.1	26.4
... { 1934	261.7	105.8	40.4	545.6	701.5	22.2
Other sorts ... { 1935	1,018.7	141.4	13.9	815.1	1,692.4	51.8
... { 1934	928.1	114.3	12.3	687.9	1,501.1	54.2
Other coal tar products:—						
Anthracene (ex- cluding anthra- cene oil) ... { 1935	21.2	1.2	5.8	15.8	35.8	55.9
... { 1934	...	1.0	...	22.1	...	...
Benzol, crude and refined ... { 1935	77,641	85†	0.1	2†	77,558	100.0
... { 1934	...	69†	...	26†	...	...
Carbolic acid:—						
Crude ... { 1935	1,372	94	6.9	—	1,278	100.0
... { 1934	...	145	...	0	...	...

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
Other coal tar products (contd.) :—	Th. cwts.	Th. cwts.	Per cent.	Th. cwts.	Th. cwts.	Per cent.
Carbolic acid (contd.) :—						
Crystal ...	1935 79.7 1934 ...	1935 7.0 1934 5.1	1935 8.8 1934 ...	1935 0.5 1934 4.6	1935 73.2 1934 ...	1935 99.3 1934 ...
Cresylic acid ...	1935 5,167 1934 ...	1935 1,682 1934 1,568	1935 32.6 1934 ...	1935 9 1934 38	1935 3,494 1934 ...	1935 99.7 1934 ...
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene ...	1935 652.4 1934 ...	1935 129.4 1934 106.7	1935 19.8 1934 ...	1935 4.0 1934 18.9	1935 527.0 1934 ...	1935 99.2 1934 ...
Tar oil, creosote oil, anthracene oil and other heavy coal tar oils ...	1935 97,612 1934 ...	1935 24,672 1934 26,903	1935 25.3 1934 ...	1935 17 1934 19	1935 72,957 1934 ...	1935 100.0 1934 ...
Other chemicals :—	Th. tons	Th. tons		Th. tons	Th. tons	
Acids :—						
Acetic ...	1935 30.6 1934 20.3	1935 0.3 1934 0.4	1935 1.0 1934 2.0	1935 8.4 1934 9.1	1935 38.7 1934 29.0	1935 78.4 1934 68.7
Nitric ...	1935 72.4 1934 71.6	1935 0.2 1934 0.1	1935 0.2 1934 0.2	1935 1.8 1934 1.5	1935 74.0 1934 73.0	1935 97.6 1934 98.0
Salicylic (including salicylates, not elsewhere specified) ...	1935 5,307 1934 4,504	1935 856 1934 611	1935 16.1 1934 13.6	1935 54 1934 148	1935 4,505 1934 4,041	1935 98.8 1934 96.3
Sulphuric ...	1935 876.7 1934 846.7	1935 2.7 1934 2.9	1935 0.3 1934 0.4	1935 0.4 1934 0.1	1935 874.4 1934 843.9	1935 100.0 1934 100.0
Other acids ...	1935 205.8 1934 194.4	1935 4.7 1934 4.9	1935 2.3 1934 2.5	1935 5.9 1934 7.0	1935 207.0 1934 196.5	1935 97.1 1934 96.4
Aluminium compounds :—						
Sulphate ...	1935 88.6 1934 74.1	1935 12.5 1934 11.6	1935 14.1 1934 15.7	1935 7.7 1934 13.2	1935 83.8 1934 75.7	1935 90.8 1934 82.6
Other sorts (excluding bauxite and abrasives)	1935 72.1 1934 67.9	1935 27.2 1934 24.2	1935 37.7 1934 35.6	1935 0.2 1934 0.3	1935 45.1 1934 44.0	1935 99.6 1934 99.4
Ammonium compounds :—						
Carbonate and bicarbonate ...	1935 3.5 1934 3.4	1935 2.0 1934 1.8	1935 56.6 1934 52.1	1935 0.0 1934 0.0	1935 1.5 1934 1.6	1935 100.0 1934 100.0
Other, including ammonia liquor but not ammonium sulphate	1935 78.7 1934 70.3	1935 21.5 1934 12.7	1935 27.4 1934 18.0	1935 3.1 1934 3.4	1935 60.3 1934 61.0	1935 94.9 1934 94.3
Barium compounds (excluding barytes and blanc fixe) ...	1935 47.4 1934 34.4	1935 5.2 1934 5.4	1935 11.0 1934 15.9	1935 2.0 1934 1.5	1935 44.2 1934 30.5	1935 95.6 1934 95.0
Bleaching materials (bleaching powder, hydro-sulphites, peroxides, perborates, etc.) ...	1935 113.6 1934 105.4	1935 36.6 1934 35.8	1935 32.2 1934 33.9	1935 4.0 1934 3.3	1935 81.0 1934 72.9	1935 95.1 1934 95.4

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
Other chemicals (contd.) :—	Th. cwts.	Th. cwts.	Per cent.	Th. cwts.	Th. cwts.	Per cent.
Bromides not elsewhere specified (excluding ethyl bromide)...	1935 9.2 1934 9.2	1935 3.6 1934 3.2	1935 38.9 1934 34.9	1935 3.9 1934 4.1	1935 9.5 1934 10.1	1935 58.8 1934 59.3
Camphor ...	1935 4.5 1934 4.4	1935 0.1 1934 0.2	1935 1.3 1934 3.5	1935 8.5 1934 8.8	1935 12.9 1934 13.0	1935 34.1 1934 32.8
Chloroform ...	1935 754 1934 744	1935 117 1934 113	1935 15.6 1934 15.2	1935 0 1934 —	1935 637 1934 631	1935 100.0 1934 100.0
Collodion ...	1935 5.1 1934 4.2	1935 1.7 1934 1.5	1935 33.2 1934 34.6	1935 0.0 1934 0.0	1935 3.4 1934 2.7	1935 99.9 1934 99.9
Copper sulphate	1935 34.9 1934 47.2	1935 35.5 1934 39.8	1935 ... 1934 84.5	1935 0.1 1934 0.0	1935 ... 1934 7.4	1935 ... 1934 99.6
Ether, acetic (ethyl acetate)	1935 4,580 1934 4,985	1935 49 1934 28	1935 1.1 1934 0.6	1935 0 1934 0	1935 4,531 1934 4,957	1935 100.0 1934 100.0
Ether, sulphuric	1935 182.1 1934 160.8	1935 10.0 1934 8.9	1935 5.5 1934 5.6	1935 — 1934 —	1935 172.1 1934 151.9	1935 100.0 1934 100.0
Formaldehyde ...	1935 216.1 1934 188.9	1935 9.4 1934 10.6	1935 4.3 1934 5.6	1935 7.1 1934 9.9	1935 213.8 1934 188.2	1935 96.7 1934 94.7
Iodine and iodides, not elsewhere specified ...	1935 174.1 1934 202.8	1935 59.1 1934 43.7	1935 33.9 1934 21.5	1935 257.1 1934 §	1935 372.1 1934 ...	1935 30.9 1934 ...
Lead compounds :—	Th. cwts.	Th. cwts.		Th. cwts.	Th. cwts.	
Litharge ...	1935 141.8 1934 127.6	1935 53.7 1934 43.5	1935 37.9 1934 34.1	1935 24.2 1934 25.7	1935 112.3 1934 109.8	1935 78.4 1934 76.6
Other (including red and orange lead, but not acetate of lead)	1935 414.4 1934 408.7	1935 110.4 1934 103.8	1935 26.6 1934 25.4	1935 33.1 1934 27.0	1935 337.1 1934 331.9	1935 90.2 1934 91.9
Lime, acetate of	1935 15.3 1934 16.0	1935 0.3 1934 0.8	1935 2.2 1934 5.1	1935 15.6 1934 7.1	1935 30.6 1934 22.3	1935 49.1 1934 68.1
Magnesium compounds	1935 23.0 1934 20.8	1935 5.4 1934 5.0	1935 23.7 1934 24.1	1935 24.2 1934 22.3	1935 41.8 1934 38.1	1935 42.1 1934 41.4
Methyl alcohol (synthetic or from wood distillation processes)	1935 2,722 1934 2,431	1935 10 1934 9	1935 0.4 1934 0.4	1935 252 1934 202	1935 2,964 1934 2,684	1935 91.5 1934 90.3
Potassium compounds :—	Th. cwts.	Th. cwts.		Th. cwts.	Th. cwts.	
Iodide ...	1935 2.9 1934 2.8	1935 0.9 1934 1.0	1935 31.8 1934 34.5	1935 0.1 1934 0.1	1935 2.1 1934 1.9	1935 94.9 1934 95.3
Sulphate ...	1935 33.5 1934 38.7	1935 20.2 1934 16.0	1935 60.2 1934 41.4	1935 744.4 1934 720.2	1935 757.7 1934 742.9	1935 1.8 1934 3.0
Other potassium compounds ...	1935 175.8 1934 153.4	1935 52.6 1934 55.4	1935 29.9 1934 36.1	1935 1,575.6 1934 1,296.3	1935 1,698.8 1934 1,394.3	1935 7.3 1934 7.0

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
	Th. tons	Th. tons	Per cent.	Th. tons	Th. tons	Per cent.
Other chemicals (<i>contd.</i>) :—						
Sodium compounds :—						
Carbonate (including soda crystals, soda ash and bicarbonate) and caustic soda ...						
1935	1,356.9	341.5	25.2	2.7	1,018.1	99.7
1934	1,212.0	299.9	24.7	7.6	919.7	99.2
Chromate and bichromate						
1935	6.3	1.0	15.7	2.9	8.2	64.8
1934	7.4	1.3	17.6	2.8	8.9	68.9
Phosphate ...						
1935	4.1	0.9	22.6	2.6	5.8	54.9
1934	3.2	0.6	18.9	2.0	4.6	56.5
Sulphate (including salt cake)...						
1935	106.8	37.1	34.7	2.5	72.2	96.5
1934	105.2	30.3	28.8	1.9	76.8	97.5
Other sodium compounds						
1935	187.2	47.9	25.6	40.5	179.8	77.5
1934	191.0	42.8	22.4	20.5	168.7	87.9
Synthetic organic chemicals for tanning and for photographic purposes ...	Th. cwts.	Th. cwts.		Th. cwts.	Th. cwts.	
1935	66.6	2.7	4.0	1.8	65.7	97.3
1934	60.8	1.8	2.9	1.4	60.4	97.7
Tartrates, not elsewhere specified ...						
1935	3.8	1.6	42.2	0.0	2.2	98.0
1934	4.2	1.0	24.0	0.0	3.2	99.6
Zinc oxide ...	Th. tons	Th. tons		Th. tons	Th. tons	
1935	48.0	13.4	27.9	0.8	35.4	97.7
1934	40.1	12.4	30.9	0.6	28.3	97.8
Sulphur ...	Th. cwts.	Th. cwts.		Th. cwts.	Th. cwts.	
1935	363.9	30.0	8.3	1,715.0	2,048.9	16.3
1934	313.3	21.9	7.0	1,748.1	2,039.5	14.3

* Including pills, medicated lozenges, capsules and tablets, but not infants' and invalids' foods.

† Exclusive of any benzol which may have formed part of the exports or imports recorded as motor spirit.

‡ Excluding ammonium phosphate.

§ Re-exports in excess of imports.

|| Excluding synthetic organic chemicals for tanning purposes.

Table IX.—Other output of the Chemicals, Dyestuffs and Drugs Trades

The value of the gross output of the firms whose returns were made on schedules for the Chemicals, Dyestuffs and Drugs Trades was £68,761,000 in 1935 and £62,707,000 in 1934, of which £60,000,000 in 1935 and £55,288,000 in 1934 consisted of products included in Table V B. Particulars of the remaining items are shown below.

Kind of output	1935		1934	
	Quantity	Value	Quantity	Value
Coal tar :—	Th. tons	£'000	Th. tons	£'000
Crude ...	12.7	20	10.7	20
Refined ...	375.9	1,168	79.8	248
			60,942	1,052
			Th. tons	
Pitch ...	331.0	600	337.5	759
Tar macadam, asphalt and bitumen ...	68.1	182	80.5	166
Disinfectants, insecticides, weed-killers, etc. ...	Th. cwts.		Th. cwts.	
	173.2	293	185.2	297
	Th. galls.		Th. galls.	
	263.1	19	175.6	13
Fertilisers :—	Th. tons		Th. tons	
Sulphate of ammonia ...	184.6	871	229.3	1,092
Superphosphates ...	19.6	49	28.9	72
Other manufactured fertilisers (including compound manures) ...	133.0	773	125.6	777
Paints, enamels, varnishes, etc. ...	...	244	...	315
Hair preparations :—	Th. fl. ozs.		Th. lbs.	
Liquid ...	28,990	165	...	...
Other ...	Th. lbs.		...	...
	418.2	37	...	963
Tooth paste, solid dentifrice and tooth powder (including camphorated chalk sold as dentifrice) ...	2,626	590	...	...
Perfumed bath salts ...	1,208	50	...	...
Other perfumery, cosmetics, etc. ...	...	67	...	...
	...	445	...	...
Perfumed spirits ...	Th. galls.		Th. galls.	
	84.8	101	92.6	97
	Th. cwts.		Th. cwts.	
Soap ...	121.7	157	81.0	125
Farinaceous preparations ...	...	234	...	211
Other goods ...	...	2,696	...	1,212
TOTAL ...	...	8,761	...	7,419

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	1935		1934
	Quantity	Cost	Cost
	Th. tons	£'000	£'000
Pyrites	175.8	221	} 28,973
Sulphur, crude	82.9	372	
Spent oxide	117.0	147	
Phosphate rock	94.5	153	
Coal tar, crude	1,040	2,030	
Benzol :—	Th. galls.		
Crude	16,301	657	
Refined	1,355	104	
Toluol	657.6	66	
Alcohol	13,934	1,009	
	Th. tons		
Barytes	31.4	50	
Calcium carbide	24.0	232	
	Th. lbs.		
Iodine, crude	271.3	59	
	Th. cwts.		
Sodium hydroxide	78.4	49	
	Th. tons		
Chrome ore	13.9	51	
Lead	11.4	149	
	Th. lbs.		
Mercury	606.0	91	
	...	95	
	Th. tons		
Tin	0.4	93	
Zinc (spelter)	40.0	595	
Fuel and electricity used for all purposes :—			
Coal	3,029.3	2,215	
Coke	217.9	194	
	Th. galls.		
Heavy fuel oil	2,979	51	
	Th. B.T.U. (Kw.-hrs.)		
Purchased electricity*	441,880	677	
All other purchased materials and fuel ... ..	...	22,098
TOTAL	31,458	28,973

* Including electricity generated in other works under the same ownership.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

Kind of fuel	1935	1930
	Th. tons	Th. tons
Coal	3,029.3	2,274.7
Coke	217.9	405.7
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Electricity :—		
Generated in same works	761,890	359,950
Generated in other works under same ownership	207,938	20,894
Purchased... ..	233,942	240,451
Total electricity consumed... ..	1,203,770	621,295

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
	Operatives (average for the year)	2,546	48,175	3,237	11,341	5,783	59,516
Administrative, technical and clerical staff*	556	12,261	801	5,834	1,357	18,095
	1934	1935	1934	1935	1934	1935
TOTAL	3,102	60,436	4,038	17,175	7,140	77,611
	2,692	57,177	3,565	16,170	6,257	73,347

* As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†		
	1934	1935	1933	1934	1935
	January	42,223	43,227	85.7	93.3	99.1
February	42,876	43,116	87.1	94.8	98.8
March	42,866	43,314	87.3	94.8	99.3
April	42,863	43,495	87.2	94.8	99.7
May	42,968	43,301	87.4	95.0	99.2
June	43,219	43,281	88.1	95.6	99.2
July	42,655	43,421	88.5	94.3	99.5
August	43,357	43,437	88.6	95.9	99.6
September	43,506	43,520	90.1	96.2	99.7
October	43,124	43,745	91.3	95.3	100.3
November	43,567	44,789	93.0	96.3	102.6
December	43,271	44,931	93.1	95.7	103.0
Average for the twelve months...	43,041	43,631	89.0	95.2	100.0
Proportion of total operatives represented	75.99	73.31	...	...	...

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XI C.—Average numbers employed, 1924-1935

Year	Operatives	Administrative, technical and clerical staff	Total
1924	55,624	11,338	66,962
1930	55,786	14,689	70,475
1933	52,946	15,389	68,335
1934	56,639	16,708	73,347
1935	59,516	18,095	77,611

WAGES

Table XII.—Wages paid by firms furnishing returns of wages in 1935 and 1930

The aggregate amount of wages paid by firms furnishing returns of wages was £6,596,000 in 1935 representing 23.3 per cent. of the net output of these firms, the corresponding figures for 1930 being £6,372,000 and 37.4 per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representative.

Firms furnishing returns of wages	1935		1930	
	Aggregate	Proportion of trade	Aggregate	Proportion of trade
Gross output... ..	£'000 51,130	Per cent. 74.4	£'000 36,349	Per cent. 69.0
Net output	28,273	77.4	17,022	68.1
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	39,159	80.5	}	*
Females... ..	6,351	55.5		
Total	45,510	75.8	39,610	73.8
Average for the year	44,976	75.6	42,799	76.7
Administrative, technical and clerical staff	12,885	71.2	*	*
Number of establishments	358	59.6	...	...

* Not recorded separately.

SUB-DIVISIONS OF THE INDUSTRY, 1935

(I) DRUGS, MEDICINES AND MEDICINAL PREPARATIONS

Table XIII.—Size of establishments

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	48	746	434	874	497
25-49	47	1,395	831	1,635	508
50-99	41	1,852	1,093	2,866	381
100-199... ..	37	3,918	2,425	5,066	479
200-299... ..	9	2,542	1,669	2,146	778
300-399... ..	8	2,875	1,953	2,774	704
400-749... ..	6	3,494	1,898	3,147	603
750 and over	3	2,870	1,619	3,169	511
TOTAL	199	19,692	11,922	21,677	550

Table XIV.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1	91	10,737	7,071	11,504	615
2	36	3,247	2,123	3,867	549
3	15	549	307	948	324
4 and 5	14	881	520	1,030	505
6	10	2,774	1,180	2,306	512
7	4	267	110	496	221
8 and 9	9	244	119	451	264
10	10	636	335	536	624
14	4	97	53	159	337
15	6	260	104	380	273
TOTAL	199	19,692	11,922	21,677	550

* For particulars see page xviii.

Table XV.—Output

Kind of output	Returned by firms in the Drugs, Medicines and Medicinal Preparations Group			Returned by all firms	
	Quantity	Value	Entries	Quantity	Value
Drugs, medicines and medicinal preparations :—	Th. ozs.	£'000	No.	Th. ozs.	£'000
Quinine and quinine salts ...	145	13	3	2,463	259
Acetyl-salicylic acid (aspirin)...	Th. lbs.			Th. lbs.	
Salvarsan and neo-salvarsan and other organo-arsenic compounds of like medicinal application ...	290.0	101	...	1,466	175
Novocain, eucain and like local anaesthetics ...				7.9	107
Ointments and liniments ...	Th. cwts.			Th. cwts.	
Infants' and invalids' foods* :—	46.3	619	91	35.3	70
Malted foods ...	...	2,276	19	Th. cwts.	708
Malt extract ...	Th. galls.			Th. galls.	
	1,990	582	21	2,046	604
	Th. cwts.			Th. cwts.	
	100.9	203	5	102.4	205
Medicated wines ...				Th. galls.	
Other ...		986	...	263.2	326
Proprietary medicines, not elsewhere specified...				...	677
Pills, medicated lozenges, capsules and tablets, not included above ...		4,494	92	...	4,601
Medicinal plasters ...		3,234	99	...	3,307
Medicinal oils, not included elsewhere ...		280	15	...	282
	2.0	56	13	Th. cwts.	
				2.2	58
Insulin and its salts ...				Mill. int. units	
				501.5	175
Health salts and salines ...		1,127	...	Th. cwts.	
Other drugs and medicinal preparations, not elsewhere specified ...				95.0	989
		3,239	...	...	3,712
TOTAL — Drugs, medicines and medicinal preparations	...	17,210	...	...	18,531

* See footnote (*) to Table V B (page 272).

The value of the other output of these firms was £2,482,000, of which the following were the principal items:—

	£'000
Chloroform ...	26
Fine chemicals ...	120
Other chemicals ...	89
Essential oils ...	33
Flavouring essences and brewers' finings	64
Disinfectants ...	87
Hair preparations ...	198
Tooth paste, tooth powder, etc.	590
Perfumed bath salts ...	113
Other perfumery, cosmetics, etc.	549
Perfumed spirits ...	90
Soap ...	45
Farinaceous preparations ...	234
Other goods made and work done ...	244
TOTAL ...	2,482

Table XVI.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Quantity	Cost
Benzol, refined ...	Th. galls.	£'000
Alcohol ...	9.0	1
	190.0	382
	Th. lbs.	
Iodine, crude ...	63.5	14
	Th. cwts.	
Sodium hydroxide...	1.4	1
	Th. lbs.	
Mercury ...	26.0	4
Fuel and electricity used for all purposes :—	Th. tons	
Coal ...	117.3	112
Coke ...	7.8	11
	Th. galls.	
Heavy fuel oil ...	434	7
	Th. B. T. U.	
	(Kw.-hrs.)	
Purchased electricity ...	8,752	45
All other purchased materials and fuel...	...	6,447
TOTAL ...	...	7,024

(II) DYES AND DYESTUFFS

Table XVII.—Size of establishments

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ...	8	230	69	136	506
25-49 ...	6	298	102	194	528
50-99 ...	8	671	237	510	464
100-199...	4	639	212	562	377
200 and over ...	7	6,206	3,301	6,661	496
TOTAL ...	33	8,044	3,921	8,063	486

Table XVIII.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
2...	10	3,540	1,618	3,518	460
3...	18	3,191	1,591	3,392	469
1, 4, 10, 14 and 15 ...	5	1,313	712	1,153	617
TOTAL ...	33	8,044	3,921	8,063	486

* For particulars see page xviii.

Table XIX.—Output

Kind of output	Returned by firms in the Dyes and Dyestuffs Group			Returned by all firms	
	Quantity	Value	Entries	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000
Dye intermediates made from coal tar primary products...	297.6	1,209	10	358.2	1,387
Finished dyestuffs obtained from coal tar :—					
Direct cotton colours (in- cluding union)	91.3	806	9	93.4	820
Acid wool colours	96.2	982	13	98.3	996
Chrome and mordant colours (including alizarine) ...	69.4	698	10	73.3	717
Basic colours	34.4	445	8	34.4	445
Sulphur colours	76.5	280	7	76.6	280
Dyestuffs for lake making...	29.2	192	5	29.2	192
Oil, spirit and wax colours	11.5	122	9	11.6	123
Indigo and vat colours ...	103.1	859	5	104.0	867
Other finished dyestuffs ...	21.7	355	9	30.9	423
Total—Finished dyestuffs	533.3	4,739	...	551.7	4,863
Extracts for dyeing :—					
Logwood	9.5	15	5	9.5	15
Other sorts (including fustic and cutch)	56.4	70	6	56.7	71
Extracts for tanning (solid or liquid) :—					
Quebracho	241.1	128	8	241.2	129
Other sorts	1,011.8	569	9	1,018.7	574
TOTAL—Dyes and dyestuffs	...	6,730	...	...	7,039

The value of the other output of these firms was £1,314,000, of which the following were the principal items:—

Other coal tar products	£'000	19
Synthetic organic chemicals for tanning	51	
Other chemicals	555	
Sulphonated oils	47	
Finishing materials for the Textile Trades	110	
Other goods made and work done ...	532	
TOTAL	1,314	

Table XX.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Quantity	Cost
Benzol, crude or refined	Th. galls.	£'000
Toluol	1,933	107
Alcohol	376.8	37
	329.2	18
Sodium hydroxide... ..	Th. cwts.	
Fuel and electricity used for all purposes :—	31.5	19
Coal	Th. tons	
Coke	205.3	157
	4.6	5
Heavy fuel oil	Th. galls.	
	153	3
	Th. B. T. U.	
	(Kw.-hrs.)	
Purchased electricity*	28,135	49
All other purchased materials and fuel ...	...	3,728
TOTAL ... ..	...	4,123

* Including electricity generated in other works under the same ownership.

(III) COAL TAR PRODUCTS (OTHER THAN DYES AND DYESTUFFS)

Table XXI.—Size of establishments

Size of establishment (average number employed)	Number of establish- ments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	27	688	179	477	376
25-49	20	947	266	742	358
50-99	20	1,627	302	1,276	237
100-199... ..	7	1,316	374	910	411
200 and over	3	648	172	652	264
TOTAL	77	5,226	1,293	4,057	319

Table XXII.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establish- ments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1	6	471	123	368	335
2	15	1,066	232	669	347
3	8	952	233	651	357
4	10	592	151	546	277
5	9	634	163	569	286
6 and 7	6	271	87	338	258
8	7	404	77	280	274
9 and 10	4	258	52	145	360
11 and 12	4	155	43	140	309
14	4	174	59	120	495
15 and 17	4	249	73	231	315
TOTAL	77	5,226	1,293	4,057	319

*For particulars see page xviii.

Table XXIII.—Output

Kind of output	Returned by firms in the Coal Tar Products Group			Returned by all firms	
	Quantity	Value	Entries	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000
Anthracene (excluding anthracene oil)	18.3	7	9	21.2	8
Benzol :—	Th. galls.			Th. galls.	
Crude	11,259	706	28	28,239	1,168
Refined				48,673	3,061
Carbolic acid :—					
Crude... ..	1,017	98	19	1,301	126
Crystal	Th. cwts.			Th. cwts.	
	28.9	104	5	63.4	213
Th. galls.				Th. galls.	
Cresylic acid	3,440	258	22	4,967	381
Naphtha, in terms of crude naphtha	2,452	95	42	4,118	185
Naphtha, solvent	1,896	121	21	2,618	160
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene	Th. cwts.			Th. cwts.	
	338.2	113	40	652.0	189
Th. galls.				Th. galls.	
Pyridine	146	21	19	155	23
Toluol	959	90	19	3,086	285
Heavy coal tar oils :—					
Tar oil	51,649	1,003	54	619	12
Creosote oil... ..				71,382	1,404
Anthracene oil				950	23
Other sorts				5,552	131
Unclassified	1,004	19	3	4,648	73
Total — Heavy coal tar oils	59,155	1,176	...	96,264	1,880
Xylol*	125	13	7	690	72
Other tar acids*	946	46	8	992	50
Other coal tar products ... ..	...	138	...	...	188
Unclassified ... ..	...	7	...	...	7
TOTAL—Coal tar products	...	2,993	...	...	7,996

* So far as recorded separately.

The value of the other output of these firms was £2,233,000, of which the following were the principal items:—

	£'000
Chemicals... ..	55
Coal tar, refined	1,159
Pitch	599
Disinfectants, insecticides, weed-killers, etc.	150
Tar macadam, asphalt and bitumen	158
Other goods made and work done	112
TOTAL	2,233

Table XXIV.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Quantity	Cost
Coal tar, crude	Th. tons	£'000
	1,036	2,021
Benzol, crude or refined	Th. galls.	
	15,005	598
Fuel and electricity used for all purposes :—	Th. tons	
Coal	244.7	196
Coke	24.4	13
Heavy fuel oil	Th. galls.	
	60	1
Purchased electricity*	Th.B.T.U. (Kw.-hrs.)	
	4,183	15
All other purchased materials and fuel ... ..	...	1,089
TOTAL ... ..	...	3,933

* Including electricity generated in other works under the same ownership.

COUNTRY TABLES (1935)

Note.—The figures given in the following tables relate only to firms whose returns were made on schedules for the Chemicals, Dyestuffs and Drugs Trades.

Owing to the possible disclosure of information relating to individual returns, separate particulars for Northern Ireland cannot be given.

Table I.—General summary

Particulars	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Value of products (Gross output) ...	£'000	65,025	3,736	68,761
Cost of materials, fuel and electricity used ...	"	29,617	1,841	31,458
Amount paid for work given out ...	"	15	—	15
Estimated Excise duty ...	"	726	14	740
Net output ...	"	34,667	1,881	36,548
Average number of persons employed...	No.	73,166	4,445	77,611
Net output per person employed ...	£	474	423	471
Number of returns ...	No.	510	49	559
Number of establishments ...	"	548	53	601

Table II A.—Total make of certain principal products†
(including goods made and used for further manufacturing purposes in the same works)

Kind of goods	England and Wales and Northern Ireland	Scotland	United Kingdom
Acids :—	Th. tons	Th. tons	Th. tons
Acetic ...	*	*	29.6
Hydrochloric (1.14 S.G.) ...	162.0	13.0	175.0
Nitric (as 100 per cent. acid) ...	*	*	71.9
Salicylic (including salicylates not elsewhere specified) ...	Th. lbs. 5,307	—	Th. lbs. 5,307
Sulphuric (as 100 per cent. acid) ...	Th. tons 609.1	60.1	Th. tons 669.2
Other acids ...	27.3	2.8	30.1
Aluminium compounds :—			
Sulphate of alumina ...	*	*	87.6
Bleaching materials :—			
Bleaching powder (chloride of lime) ...	55.9	—	55.9
Hydro-sulphite and like compounds ...	5.6	—	5.6
Other sorts (including peroxides of sodium and hydrogen, perborates, percarbonates, persulphates, etc.) ...	*	*	51.8
Chloroform ...	Th. lbs. 408	Th. lbs. 346	Th. lbs. 754
Ether, acetic (ethyl acetate) ...	*	*	4,580
Ether, sulphuric ...	*	*	Th. galls. 182.1
Formaldehyde ...	*	*	Th. cwts. 216.1

Kind of goods	England and Wales and Northern Ireland	Scotland	United Kingdom
Gases, compressed (including liquefied and solidified) :—	Th. cwts.		Th. cwts.
Carbonic acid ...	340.1	—	340.1
Sulphur dioxide ...	*	*	158.0
Iodine ...	Th. lbs. 41.1	—	Th. lbs. 41.1
Iodides, not elsewhere specified ...	Th. cwts. 6.0	Th. cwts. 9.3	Th. cwts. 15.3
Lime, acetate of ...			Th. tons 23.0
Magnesium compounds ...			Th. galls. 2,722
Methyl alcohol (synthetic or from wood distillation processes) ...			Th. cwts. 33.5
Potassium sulphate ...	*	*	Th. tons 1,317
Sodium compounds :—			6.3
Carbonate (including soda crystals, soda ash and bicarbonate) and caustic soda...			4.1
Chromate and bichromate ...			
Phosphate ...	Th. tons 89.2	Th. tons 17.6	Th. tons 106.8
Sulphate (including salt cake) ...	*	*	163.0
Other sodium compounds ...	Th. cwts. 66.6	—	Th. cwts. 66.6
Synthetic organic chemicals for tanning (except dyes) and for photographic purposes, not elsewhere specified ...	*	*	13.9
Tin salts ...	Th. tons 47.4	—	Th. tons 47.4
Zinc oxide ...	Th. lbs. 659	—	Th. lbs. 659
Fine chemicals, not elsewhere specified :—	6,712	—	6,712
Re-agents...			986
Technical fine chemicals ...			*
Synthetic perfumery chemicals and isolates and their derivatives§ ...	986	—	4,305
Medicinal fine chemicals ...	*	*	4,528
Other fine chemicals ...	4,528	—	4,528
Coal tar products (other than dyes and dyestuffs) :—			Th. galls. 11,642
Benzol, refined ...			1,088
Carbolic acid :—			70.9
Crude ...	*	*	Th. galls. 4,508
Crystal ...			2,648
Cresylic acid ...	Th. galls. 2,504	Th. galls. 144	Th. cwts. 338.5
Naphtha, in terms of crude naphtha ...			Th. galls. 147.3
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene ...	*	*	1,179
Pyridine ...			
Toluol, in terms of 90's toluol ...			
Heavy coal tar oils :—			
Tar oil ...	*	*	46
Creosote oil ...	47,485	5,104	52,589
Anthracene oil ...	*	*	1,394
Other sorts ...	5,657	—	5,657
Unclassified ...	1,073	—	1,073
Total—Heavy coal tar oils ...	55,601	5,158	60,759

† See footnote (*) to Table V A, page 266.

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

§ Including some synthetic essential oils.

Table II B.—Output made for sale

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Drugs, medicines and medicinal preparations :—				
Quinine and quinine salts ...	Th. ozs. £'000	*	*	2,463 259
Acetyl-salicylic acid (aspirin) ...	Th. lbs. £'000	1,466 175	—	1,466 175
Salvarsan and neo-salvarsan and other organo-arsenic compounds of like medicinal application ...	Th. lbs. £'000	7.9 107	—	7.9 107
Novocain, eucain and like local anaesthetics ...	Th. lbs. £'000	*	*	35.3 70
Ointments and liniments ...	Th. cwts. £'000	47.4 629	1.3 12	48.7 641
Infants' and invalids' foods† :—				
Malted foods ...	£'000	2,276	—	2,276
Malt extract ...	Th. galls. £'000	1,803 529	225 66	2,028 595
Medicated wines ...	Th. cwts. £'000	20.6 50	81.8 155	102.4 205
Other ...	Th. galls. £'000	*	*	263.2 326
Proprietary medicines, not elsewhere specified ...	£'000	4,480	49	4,529
Pills, medicated lozenges, capsules and tablets, not included above ...	£'000	3,285	12	3,297
Medicinal plasters ...	£'000	282	—	282
Medicinal oils, not included elsewhere ...	Th. cwts. £'000	2.2 58	—	2.2 58
Insulin and its salts... ..	Mill. int. units £'000	501.5 175	—	501.5 175
Health salts and salines ...	Th. cwts. £'000	*	*	94.3 984
Other drugs and medicinal preparations, not elsewhere specified	£'000	3,519	119	3,638
TOTAL—Drugs, medicines and medicinal preparations ...	£'000	17,835	443	18,278
Dyes and dyestuffs :—				
Dye intermediates made from coal tar primary products ...	Th. cwts. £'000	*	*	358.2 1,387
Finished dyestuffs obtained from coal tar :—				
Direct cotton colours (including union) ...	Th. cwts. £'000	93.4 820	—	93.4 820
Acid wool colours... ..	Th. cwts. £'000	98.3 996	—	98.3 996
Chrome and mordant colours (including alizarine) ...	Th. cwts. £'000	*	*	73.3 717
Basic colours ...	Th. cwts. £'000	34.4 445	—	34.4 445
Sulphur colours ...	Th. cwts. £'000	76.6 280	—	76.6 280

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Dyes and dyestuffs (contd.) :—				
Finished dyestuffs obtained from coal tar (contd.) :—				
Dyestuffs for lake making ...	Th. cwts. £'000	29.2 192	—	29.2 192
Oil, spirit and wax colours ...	Th. cwts. £'000	11.6 123	—	11.6 123
Indigo and vat colours ...	Th. cwts. £'000	*	*	104.0 867
Other finished dyestuffs ...	Th. cwts. £'000	*	*	30.9 423
TOTAL—Finished dyestuffs ...	Th. cwts. £'000	*	*	551.7 4,863
Extracts for dyeing :—				
Logwood ...	Th. cwts. £'000	—	—	9.5 15
Other sorts (including fustic and cutch) ...	Th. cwts. £'000	—	—	56.7 71
Extracts for tanning (solid or liquid) :—				
Quebracho... ..	Th. cwts. £'000	*	*	241.2 129
Other sorts ...	Th. cwts. £'000	—	—	1,018.7 574
TOTAL—Dyes and dyestuffs ...	£'000	*	*	7,039
Other coal tar products :—				
Anthracene (excluding anthracene oil) ...	Th. cwts. £'000	18.4 7	—	18.4 7
Benzol, crude and refined ...	Th. galls. £'000	*	*	12,164 751
Carbolic acid :—				
Crude ...	Th. galls. £'000	—	—	1,017 98
Crystal ...	Th. cwts. £'000	*	*	54.6 185
Cresylic acid ...	Th. galls. £'000	—	—	4,308 331
Naphtha, in terms of crude naphtha	Th. galls. £'000	2,381 93	72 2	2,453 95
Naphtha, solvent ...	Th. galls. £'000	1,816 117	140 8	1,956 125
Naphthalene (excluding naphthalene oil), in terms of crude naphthalene ...	Th. cwts. £'000	—	—	338.2 113
Pyridine ...	Th. galls. £'000	*	*	147 21
Toluol ...	Th. galls. £'000	—	—	961 91
Heavy coal tar oils :—				
Tar oil ...	Th. galls. £'000	*	*	46 1
Creosote oil ...	Th. galls. £'000	46,780 904	4,927 100	51,707 1,004
Anthracene oil ...	Th. galls. £'000	*	*	1,032 24
Other sorts ...	Th. galls. £'000	—	—	5,552 131
Unclassified ...	Th. galls. £'000	1,073 20	—	1,073 20
TOTAL—Heavy coal tar oils ...	Th. galls. £'000	54,441 1,079	4,969 101	59,410 1,180

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Other coal tar products (<i>contd.</i>):—				
Xylo†	Th. galls.	131	—	131
	£'000	13	—	13
Other tar acids†	Th. galls.	946	—	946
	£'000	46	—	46
Other coal tar products§	£'000	169	6	175
Unclassified	£'000	7	—	7
TOTAL—Coal tar products ...	£'000	3,026	212	3,238
Other chemicals:—				
Acids:—				
Acetic	Th. tons	*	*	9.6
	£'000			314
Hydrochloric (1.14 S.G.) ...	Th. tons	143.7	12.9	156.6
	£'000	456	48	504
Nitric (as 100 per cent. acid) ...	Th. tons	*	*	14.1
	£'000			230
Salicylic (including salicylates not elsewhere specified) ...	Th. lbs.	2,652	—	2,652
	£'000	157	—	157
Sulphuric (as 100 per cent. acid)	Th. tons	483.9	46.3	530.2
	£'000	1,617	149	1,766
Other acids	Th. tons	21.5	1.4	22.9
	£'000	920	94	1,014
Total—Acids	£'000	3,683	302	3,985
Aluminium compounds:—				
Sulphate of alumina	Th. tons	*	*	87.5
	£'000			370
Alum (soda alum, potash alum and ammonia alum)	Th. tons	7.5	—	7.5
	£'000	54	—	54
Other sorts (including aluminium oxide but excluding bauxite and abrasives)	Th. tons	*	*	64.6
	£'000			877
Total—Aluminium compounds	Th. tons	*	*	159.6
	£'000			1,301
Ammonium compounds:—				
Carbonate and bicarbonate ...	Th. tons			3.5
	£'000			62
Ammonia liquor (in terms of 880 ammonia)	Th. tons	*	*	41.8
	£'000			250
Other sorts (excluding ammonium sulphate)	Th. tons			34.2
	£'000			450
Total—Ammonium compounds	Th. tons	78.8	0.7	79.5
	£'000	749	13	762
Barium compounds (including natural sulphate and blanc fixe)|| ...	Th. tons	*	*	21.5
	£'000			146
Bleaching materials:—				
Bleaching powder (chloride of lime)	Th. tons	55.4	—	55.4
	£'000	278	—	278
Hydro-sulphite and like compounds	Th. tons	5.5	—	5.5
	£'000	291	—	291
Other sorts (including peroxides of sodium and hydrogen, perborates, percarbonates, persulphates, etc.)	Th. tons	*	*	48.1
	£'000			644
Bromides, not elsewhere specified (excluding ethyl bromide) ...	Th. cwts.	9.2	—	9.2
	£'000	66	—	66
Camphor	Th. cwts.	4.5	—	4.5
	£'000	34	—	34
Chloroform	Th. lbs.	404	337	741
	£'000	50	54	104

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Other chemicals (<i>contd.</i>):—				
Cobalt salts	Th. cwts.	2.7	—	2.7
	£'000	47	—	47
Collodion	Th. galls.	5.1	—	5.1
	£'000	6	—	6
Ether, acetic (ethyl acetate) ...	Th. lbs.	3,833	—	3,833
	£'000	104	—	104
Ether, sulphuric	Th. galls.	*	*	180.7
	£'000			84
Formaldehyde	Th. cwts.	*	*	200.2
	£'000			202
Gases, compressed (including liquefied and solidified):—				
Carbonic acid	Th. cwts.	303.0	—	303.0
	£'000	231	—	231
Sulphur dioxide	Th. cwts.	*	*	66.4
	£'000			38
Other	£'000			1,682
Iodine	Th. lbs.	*	*	128.2
	£'000			25
Iodides, not elsewhere specified ...	Th. lbs.	41.1	—	41.1
	£'000	16	—	16
Lead compounds (excluding acetate of lead)	Th. cwts.	225.3	—	225.3
	£'000	227	—	227
Lime, acetate of	Th. cwts.	*	*	12.3
	£'000			7
Magnesium compounds:—				
Sulphate	Th. tons	10.6	—	10.6
	£'000	79	—	79
Other sorts, not elsewhere specified	Th. tons	*	*	10.6
	£'000			194
Mercurial compounds, not elsewhere specified	Th. cwts.	5.1	—	5.1
	£'000	110	—	110
Methyl alcohol (synthetic or from wood distillation processes) ...	Th. galls.	*	*	2,709
	£'000			212
Potassium compounds:—				
Cyanide	Th. cwts.	1.1	—	1.1
	£'000	8	—	8
Iodide	Th. cwts.	*	*	2.9
	£'000			83
Sulphate	Th. cwts.	*	*	33.5
	£'000			14
Other sorts, including chloride, chromate and bichromate ...	Th. cwts.	58.4	39.3	97.7
	£'000	124	46	170
Total—Potassium compounds	Th. cwts.	88.5	46.7	135.2
	£'000	225	50	275
Sodium compounds:—				
Carbonate (including soda crystals, soda ash and bicarbonate) and caustic soda ...	Th. tons	1,072.5	3.5	1,076.0
	£'000	6,533	19	6,552
Chromate and bichromate ...	Th. tons	*	*	6.1
	£'000			197
Phosphate	Th. tons	*	*	4.0
	£'000			53
Sulphate (including salt cake and glauber salts)	Th. tons	78.8	18.2	97.0
	£'000	189	35	224
Other sodium compounds ...	Th. tons	*	*	141.9
	£'000			1,534
Total—Sodium compounds ...	Th. tons	1,298.3	26.7	1,325.0
	£'000	8,370	190	8,560

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Other chemicals (<i>contd.</i>):—				
Synthetic organic chemicals for tanning (except dyes) and for photographic purposes, not elsewhere specified ...	<i>Th. cwts.</i> £'000	65.4 79	—	65.4 79
Tartrates, not elsewhere specified...	<i>Th. cwts.</i> £'000	3.8 15	—	3.8 15
Tin salts ...	<i>Th. cwts.</i> £'000	* *	* *	13.3 86
Wood distillation products (except acetic acid, acetone, acetic anhydride, acetate of lime, methyl alcohol and naphtha):—				
Charcoal (other than decolorising and activated carbons) ...	<i>Th. tons</i> £'000	4.8 35	2.3 16	7.1 51
Acetate of iron ...	<i>Th. galls.</i> £'000	* *	* *	86.2 4
Other sorts ...	£'000			34
Zinc oxide ...	<i>Th. tons</i> £'000	47.4 778	—	47.4 778
Fine chemicals, not elsewhere specified:—				
Re-agents ...	<i>Th. lbs.</i> £'000	659 40	—	659 40
Technical fine chemicals...	<i>Th. lbs.</i> £'000	6,675 318	—	6,675 318
Synthetic perfumery chemicals and isolates and their derivatives¶	<i>Th. lbs.</i> £'000	964 213	—	964 213
Medicinal fine chemicals...	<i>Th. lbs.</i> £'000	* *	* *	4,271 676
Other fine chemicals ...	<i>Th. lbs.</i> £'000	4,527 191	—	4,527 191
Total — Fine chemicals, not elsewhere specified ...	<i>Th. lbs.</i> £'000	* *	* *	17,096 1,438
Amyl acetate ...	<i>Th. lbs.</i> £'000	1,117 41	—	1,117 41
Arsenic compounds ...	<i>Th. tons</i> £'000	* *	* *	1.6 43
Butyl acetate ...	<i>Th. lbs.</i> £'000	5,726 190	—	5,726 190
Ethyl chloride ...	<i>Th. galls.</i> £'000	* *	* *	26.4 28
Chemicals, not elsewhere specified ...	£'000	6,636	189	6,825
TOTAL—Other chemicals ...	£'000	27,597	1,725	29,322
Other chemical products:—				
Sulphur ...	<i>Th. cwts.</i> £'000	363.9 113	—	363.9 113
Essential oils (other than turpentine)†	<i>Th. lbs.</i> £'000	301.2 109	—	301.2 109
Sulphonated oils ...	<i>Th. tons</i> £'000	8.3 161	—	8.3 161
Finishing materials for the Textile Trades, other than oils (including gums, starch, etc.), not elsewhere specified ...	£'000	220	—	220
Flavouring essences, including colours for the Confectionery, etc., Trades¶	£'000	1,076	3	1,079
Boiler composition and disincrustants	£'000	109	—	109
Brewers' finings, etc....	£'000	87	—	87

Kind of output	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Other chemical products (<i>contd.</i>):—				
Bituminous coverings (including insulating compounds and cements), other than road dressings†	<i>Th. tons</i> £'000	*	*	1.8 27
Carbons, decolorising and activated‡	<i>Th. cwts.</i> £'000			114.9 120
TOTAL—Other chemical products	£'000	1,915	110	2,025
Other goods made:—				
Coal tar:—				
Crude ...	<i>Th. tons</i> £'000	12.7 20	—	12.7 20
Refined ...	<i>Th. tons</i> £'000	337.6 1,063	38.3 105	375.9 1,168
Pitch ...	<i>Th. tons</i> £'000	304.1 551	26.9 49	331.0 600
Tar macadam, asphalt and bitumen	<i>Th. tons</i> £'000	56.9 134	11.2 48	68.1 182
Disinfectants, insecticides, weed-killers, etc. ...	<i>Th. cwts.</i> £'000	170.1 289	3.1 4	173.2 293
Fertilisers:—	<i>Th. galls.</i> £'000	263.1 19	—	263.1 19
Sulphate of ammonia ...	<i>Th. tons</i> £'000	*	*	184.6 871
Superphosphates ...	<i>Th. tons</i> £'000	*	*	19.6 49
Other manufactured fertilisers (including compound manures) ...	<i>Th. tons</i> £'000	128.6 759	4.4 14	133.0 773
Paints, enamels, varnishes, etc. ...	£'000	242	2	244
Hair preparations:—				
Liquid ...	<i>Th. fl. ozs.</i> £'000			28,990 165
Other ...	<i>Th. lbs.</i> £'000			418.2 37
Tooth paste, solid dentifrice and tooth powder (including camphorated chalk sold as dentifrice)	<i>Th. lbs.</i> £'000	£'000 906	£'000 3	2,625.9 590
Perfumed bath salts:—				
Quantity stated	<i>Th. lbs.</i> £'000			1,208.1 50
Quantity not stated	£'000			67
Other perfumery, cosmetics, etc. ...	£'000	443	2	445
Perfumed spirits ...	<i>Th. galls.</i> £'000	83.6 100	1.2 1	84.8 101
Soap ...	<i>Th. cwts.</i> £'000	120.5 156	1.2 1	121.7 157
Farinaceous preparations ...	£'000	229	5	234
Other ...	£'000	2,666	30	2,696
TOTAL—All goods made	£'000	64,930	3,733	68,663
Work done on commission ...	£'000	95**	3**	98**
TOTAL — GOODS MADE AND WORK DONE ...	£'000	65,025	3,736	68,761

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† See footnote (*) to Table V B.

‡ So far as recorded separately.

§ Excluding ammonium sulphate, pitch and coal tar.

|| Excluding ground barytes produced in mines and quarries.

¶ Including some synthetic essential oils.

** Amount received.

Table III A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Unit	England and Wales and Northern Ireland	Scotland	United Kingdom
Pyrites	<i>Th. tons</i>	141.3	34.5	175.8
	£'000	176	45	221
Sulphur, crude	<i>Th. tons</i>	81.0	1.9	82.9
	£'000	363	9	372
Spent oxide	<i>Th. tons</i>	*	*	117.0
	£'000			147
Phosphate rock	<i>Th. tons</i>			94.5
	£'000			153
Coal tar, crude	<i>Th. tons</i>	944.4	95.6	1,040
	£'000	1,855	175	2,030
Benzol :—				
Crude	<i>Th. galls.</i>	*	*	16,301
	£'000			657
Refined	<i>Th. galls.</i>	1,341	14	1,355
	£'000	103	1	104
Toluol	<i>Th. galls.</i>	*	*	657.6
	£'000			66
Alcohol	<i>Th. galls.</i>	13,797	137	13,934
	£'000	963	46	1,009
Barytes	<i>Th. tons</i>			31.4
	£'000			50
Calcium carbide	<i>Th. tons</i>			24.0
	£'000			232
Iodine, crude	<i>Th. lbs.</i>			271.3
	£'000			59
Sodium hydroxide	<i>Th. cwts.</i>			78.4
	£'000			49
Chrome ore	<i>Th. tons</i>	*	*	13.9
	£'000			51
Lead	<i>Th. tons</i>			11.4
	£'000			149
Mercury	<i>Th. lbs.</i>			606.0
	Quantity stated			91
	Quantity not stated			95
Tin	<i>Th. tons</i>			0.4
	£'000			93
Zinc (spelter)	<i>Th. tons</i>			40.0
	£'000			595
Fuel and electricity used for all purposes :—				
Coal	<i>Th. tons</i>	2,838.8	190.5	3,029.3
	£'000	2,071	144	2,215
Coke	<i>Th. tons</i>	209.8	8.1	217.9
	£'000	186	8	194
Heavy fuel oil	<i>Th. galls.</i>	2,946	33	2,979
	£'000	50	1	51
Purchased electricity†	<i>Th. B.T.U. (Kw.-hrs.)</i>	427,564	14,316	441,880
	£'000	649	28	677
All other purchased materials and fuel	£'000	20,845	1,253	22,098
TOTAL	£'000	29,617	1,841	31,458

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† Including electricity generated in other works under the same ownership.

Table III B.—Consumption of electricity

Electricity consumed	England and Wales and Northern Ireland	Scotland	United Kingdom
	<i>Th. B.T.U. (Kw.-hrs.)</i>	<i>Th. B.T.U. (Kw.-hrs.)</i>	<i>Th. B.T.U. (Kw.-hrs.)</i>
Generated in same works	751,385	10,505	761,890
Generated in other works under same ownership	207,589	349	207,938
Purchased	219,975	13,967	233,942
TOTAL	1,178,949	24,821	1,203,770

Table IV A.—Numbers employed in week ended 12th October, 1935

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
England and Wales and Northern Ireland :—						
Operatives	2,466	45,629	3,174	10,982	5,640	56,611
Administrative, etc.*... ..	531	11,556	772	5,516	1,303	17,072
Total	2,997	57,185	3,946	16,498	6,943	73,683
Scotland :—						
Operatives	103	2,991	93	464	196	3,455
Administrative, etc.*... ..	25	705	29	318	54	1,023
Total	128	3,696	122	782	250	4,478
United Kingdom :—						
Operatives	2,569	48,620	3,267	11,446	5,836	60,066
Administrative, etc.*... ..	556	12,261	801	5,834	1,357	18,095
TOTAL	3,125	60,881	4,068	17,280	7,193	78,161

* Administrative, technical and clerical staff.

Table IV B.—Operatives employed in one week in each month of 1935

Week ended	Males and females		
	England and Wales and Northern Ireland	Scotland	United Kingdom
January 19	55,056	3,464	58,520
February 16... ..	55,281	3,426	58,707
March 16	55,364	3,454	58,818
April 13	55,541	3,449	58,990
May 18	55,741	3,388	59,129
June 15	55,814	3,363	59,177
July 13	56,048	3,389	59,437
August 17	56,107	3,324	59,431
September 14	56,415	3,381	59,796
October 12	56,611	3,455	60,066
November 16	57,629	3,463	61,092
December 14	57,519	3,510	61,029
Average for the twelve months	56,094	3,422	59,516

Table V.—Firms employing not more than ten persons on the average

Particulars	England and Wales and Northern Ireland	Scotland	United Kingdom
Number of returns received	No. 465	No. 48	No. 513
Average number of persons employed :—			
Males... ..	1,844	174	2,018
Females	713	77	790
Total	2,557	251	2,808