



BOARD OF TRADE

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[HA 251]

Report on the Census of Production 1963

27 General chemicals

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These notes give the main information needed for interpreting the figures in the industry reports. These detailed information about the factors is given in a separate booklet - 'Inter-industry'.

BOARD OF TRADE

Report on the Census of Production 1963

At its end of the principal products of that industry accounted for a greater proportion of the total value than the rest of the industry.

27 General chemicals

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 Sec. 7)

Products of the newly predominant industry were more than one third greater than the value of principal products in 1962.

TERMS USED IN THE CENSUS REPORT
Average number employed
Firms were required to state the number of persons on the payroll (i.e. those persons on whom wages were paid by them) on the average during the year of return.

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Notes

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

GENERAL INFORMATION

Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses.

The principle of classification by major output was also normally followed in compiling the analysis by sub-divisions of an industry.

In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT

Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether full-time or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working Proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

Employees

(i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.

(ii) Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

Notes - continued on pages iii and iv

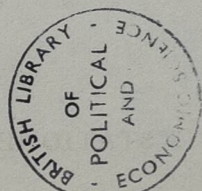
27 General chemicals

This Report on the General Chemicals Industry relates to establishments engaged wholly or mainly in tar distillation and the manufacture of organic chemicals including those from coal tar, petroleum and molasses; inorganic chemicals; industrial gases; pigments; fine chemicals (including galenicals) for pharmaceutical, veterinary and other uses; chemical materials for and the products of atomic fission or fusion; and other chemicals not reported on elsewhere.

This industry corresponds to minimum list heading 271(3) in the Standard Industrial Classification (Consolidated edition, 1963).

Coal tar products, now included in this industry, were the subject of a separate report in 1958. Uncompounded surface-active material sold for use as detergents, now included in this industry, was included in the report on Soap, Detergents, Candles and Glycerine in 1958, and steroid preparations, also included in this industry in 1963, were reported in the Pharmaceutical Preparations Industry in 1958.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).



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TABLE 1 Industry summary: United Kingdom

Estimates for all firms, 1958 and 1963 (a)

	Unit	1958	1963
Number of enterprises	No.	618	557
Number of establishments	"	871	857
Gross output	£'000	603,413	876,000
Net output	"	255,496	387,354
Net output per head	£	1,849	2,799
Sales and work done	£'000	559,558	779,876(b)
Customs and Excise duty (net)	"	..	13,098
Purchases	"	326,913(c)	368,363
Payments to other organisations	"	734	3,404
Stocks and work in progress	"		
Total stocks and work in progress	"		
Goods on hand for sale	"		
Work in progress	"		
Materials, stores and fuel	"		
Average number employed	Th.	138.1	138.4
	"	92.5	86.7
	"	45.4	51.2
Wages and salaries	£'000	58,345	69,834
	"	40,000	57,104
Employers' contributions to National Insurance and private pension schemes, etc. (e)	"	..	12,706
Capital expenditure (f)	"		
Total	"	..	64,534
New building work	"	19,053	8,780
Land and existing buildings (g)	"	..	666
Plant and machinery (g)	"	77,956	54,667
Vehicles (g)	"	1,703	1,753

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 3 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was also 3 per cent.) A summary of the detailed returns received is given in Table 2.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(c) Including duty paid, less drawbacks, rebates, etc.

(d) Administrative, technical and clerical employees.

(e) Including pensions and gratuities paid other than from pension funds.

(f) Excluding expenditure for establishments not yet in production.

(g) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963
Firms employing 25 or more persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)				
		Inorganic chemicals		Organic chemicals (c)		
		01	02	1958	1963	
		1958	1963	1958	1963	
Number of enterprises (d)	No.	60	51	33	41	
Number of establishments	"	129	114	51	77	
Gross output	£'000	170,683	174,338	151,884	308,122	
Net output	"	64,676	73,230	58,633	124,783	
Net output per head	£	1,521	2,226	2,321	3,138	
Sales and work done	£'000	162,972	158,206(e)	141,613	275,212(e)	
Sales of characteristic products	{ goods produced and work done	"	8,228	17,586	10,038	32,079
	{ merchanted goods and canteen takings	"	117,281	117,863	93,570	181,599
Index of specialisation (g)	Per cent.	72	74	66	66	
Customs and Excise duty (net)	£'000	..	2	..	12,729	
Purchases	{ materials for processing and packaging, and fuel	"	93,070	77,237	90,404	135,501
	{ goods for merchenting and canteen purchases	"	..	15,455	..	25,492
Payments to other organisations	{ for work done on materials given out	"	11	8	67	2,846
	{ for transport	"	11,290	7,770	3,497	6,791
Stocks and work in progress	"	..	..	..	..
Goods on hand for sale	{ change during year	"	- 208	- 1,325	+ 221	+ 544
	{ at end of year	"	8,856	7,728	10,227	18,530
Work in progress	{ change during year	"	- 309	- 130	+ 12	+ 287
	{ at end of year	"	1,625	1,991	2,227	5,027
Materials, stores and fuel	{ change during year	"	- 1,636	- 639	+ 718	+ 21
	{ at end of year	"	14,988	11,516	11,053	16,718
Average number employed	{ total, including working proprietors	No.	42,520	32,904	25,261	39,762
	{ operatives	"	30,745	21,703	17,276	24,655
	{ other employees (j)	"	11,772	11,187	7,985	15,094
Wages and salaries	{ of operatives	£'000	19,081	17,029	11,613	20,893
	{ of other employees (j)	"	10,691	12,279	7,118	18,250
Wages and salaries per head	{ operatives	£	621	785	672	847
	{ other employees (j)	"	908	1,072	891	1,209
Employers' contributions to National Insurance (k)	£'000	..	1,066	..	1,348	
Employers' contributions to private pension schemes, etc. (l)	"	..	1,752	..	3,059	
Capital expenditure (m)	"	..	..	..	..
New building work	"	2,826	1,021	3,647	1,847	
Land and existing buildings	{ acquisitions	"	..	139	..	58
	{ disposals	"	..	772	..	145
Plant and machinery	{ acquisitions	"	10,746	7,343	26,373	19,277
	{ disposals	"	146	254	98	347
Vehicles	{ acquisitions	"	457	594	446	298
	{ disposals	"	97	205	72	74

	Sub-divisions of the industry (b)								Total	
	Pigments		Pharmaceutical chemicals		Coal tar distillation (c)		Remainder of industry			
	03	05	07	04, 06 and 08	1958	1963	1958	1963		
	1958	1963	1958	1963	1958	1963	1958	1963		
	21	20	22	15	23	20	96	104	240	224
	32	30	30	23	58	50	182	207	482	501
	27,695	38,035	32,944	32,020	38,960	37,318	162,085	263,136	584,253	852,969
	11,064	16,628	17,255	16,541	8,227	9,023	87,511	136,965	247,366	377,170
	1,756	2,216	1,589	2,051	1,351	1,673	2,049	3,332	1,850	2,799
	27,342	36,611(e)	31,299	30,437(e)	37,699	34,941(e)	140,869	223,964(e)	541,795	759,372(e)
	225	1,378	1,304	917	846	2,887	21,472	39,513	42,113	94,360
	25,013	31,440	19,919	17,318	36,245	25,689	(f)	(f)	(f)	(f)
	91	86	64	57	96	74	..	..	90	86
	..	..	..	51	..	1,321	..	- 1,245	..	12,753(h)
	15,585	18,921	15,312	15,293	29,214(i)	22,968	72,965	88,758	316,550	358,678
	6	1,391	709	27	2,768	36,102	324	163	711	3,315
	850	757	288	268	1,483	1,081	1,814	2,851	19,223	19,517
	+ 229	+ 1	+ 180	- 132	+ 194	- 458	- 118	- 475	+ 498	- 1,845
	2,232	2,899	2,224	2,494	2,710	2,948	7,062	11,627	33,311	46,225
	- 101	+ 46	+ 161	+ 798	+ 221	- 52	- 138	+ 133	- 153	+ 1,082
	704	872	2,698	3,390	809	1,419	1,611	3,101	9,675	15,799
	- 190	- 326	+ 76	+ 765	+ 99	+ 102	+ 529	+ 459	- 403	+ 382
	4,836	5,853	2,514	2,856	1,769	1,604	9,716	13,130	44,875	51,677
	6,301	7,504	10,860	8,065	6,089	5,394	42,709	41,107	133,740	134,736
	4,487	4,998	6,680	4,796	4,488	3,903	25,995	24,643	89,671	84,698
	1,814	2,503	4,180	3,269	1,601	1,489	16,713	16,452	44,065	49,994
	2,797	4,065	3,473	3,033	2,814	3,019	16,766	20,163	56,544	68,202
	1,685	2,706	3,693	3,432	1,250	1,370	14,327	17,029	38,764	55,770
	623	813	520	632	627	773	645	818	631	805
	929	1,081	884	1,050	781	920	857	1,078	880	1,116
	..	252	..	199	..	169	..	1,282	..	4,315
	..	379	..	439	..	153	..	2,312	..	8,094
	584	569	1,032	1,629	169	289	10,187	3,194	18,445	8,549
	..	4	..	38	..	3	..	269	..	509
	..	120	..	21	..	4	..	96	..	1,158
	2,697	2,584	2,020	1,506	1,253	599	32,959	22,759	76,047	54,068
	5	34	13	14	60	7	253	184	575	839
	39	40	115	82	88	55	942	1,291	2,087	2,361
	7	13	57	48	12	22	193	291	439	654

For notes to this table - see page 27/7

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enterprises	Establishments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expenditure (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£'000	£'000	£	£'000	£'000
25-49	57	64	2,114	12,061	4,139	1,958	525	1,495
50-99	56	62	3,797	20,230	7,790	2,052	586	3,517
100-199	40	57	5,468	32,303	11,820	2,162	919	5,490
200-299	18	38	4,446	41,202	12,148	2,732	1,172	6,538
300-399	14	20	5,109	37,450	15,793	3,091	1,338	6,341
400-499	5	9	2,225	10,207	3,677	1,652	414	1,735
500-749	10	25	6,148	33,342	13,345	2,171	6,091	5,399
750-999	5	22	4,143	33,365	10,330	2,493	851	5,614
1,000-1,499	5	30	5,891	35,287	8,901	1,511	2,111	6,409
1,500-2,499	4	20	8,858	75,918	32,385	3,656	8,819	8,849
2,500-3,999	3	12	9,475	69,872	23,961	2,529	4,027	11,290
5,000-7,499	3	25	16,627	101,667	45,268	2,723	3,941	18,447
7,500 and over	4	117	60,435	350,067	187,613	3,104	32,042	32,577
Total	224	501	134,736	852,969	377,170	2,799	62,837	113,701

(ii) Employees, wages and salaries, and employers' contributions

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Employees		Wages and salaries		Employers' contributions		Wages and salaries per head	
	Operatives	Others (c)	Operatives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Operatives	Others (c)
	Number	Number	£'000	£'000	£'000	£'000	£	£
25-49	1,378	720	938	819	61	65	681	1,137
50-99	2,298	1,488	1,567	1,521	111	116	682	1,022
100-199	3,422	2,033	2,520	2,119	173	177	737	1,042
200-299	2,587	1,855	1,922	1,953	138	192	743	1,053
300-399	3,258	1,851	2,501	1,940	147	185	768	1,048
400-499	1,570	655	984	614	62	49	627	937
500-749	4,254	1,894	3,379	2,114	201	234	794	1,116
750-999	2,798	1,345	2,139	1,181	125	100	764	878
1,000-1,499	3,396	2,495	2,753	2,480	194	240	811	994
1,500-2,499	6,146	2,712	5,247	3,070	283	847	854	1,132
2,500-3,999	6,021	3,454	5,206	4,038	289	773	865	1,169
5,000-7,499	9,549	7,078	7,721	8,265	526	1,497	809	1,168
7,500 and over	38,021	22,414	31,323	25,657	2,007	3,620	824	1,145
Total	84,698	49,994	68,202	55,770	4,315	8,094	805	1,116

(a) Including working proprietors.

(b) Acquisitions less disposals.

(c) Administrative, technical and clerical employees.

(d) Including both flat rate and graduated contributions.

(e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £1,080,000.

TABLE 4 Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	2	3
18 and over	78	19	97
All ages	79	21	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963, in the 'Chemicals and Dyes Industry - Minimum List Heading 271'.

Footnotes to Table 2.

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 3 per cent. of the employment shown for 1963 and 5 per cent. for 1958.

	1958	1963
Number of firms	385	352
Average number employed:		
Working proprietors	} 4,155	{ 414
Other persons employed			3,053

(b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.

(c) Firms wholly or mainly engaged in the manufacture of cyclic hydrocarbons, pure or refined are classified to the organic chemicals sub-division for 1963 but for 1958 are included in the coal tar distillation sub-division.

(d) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.

(e) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(f) Characteristic products relate only to specific sub-divisions of the industry.

(g) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(h) Customs and Excise duty paid on goods of firms' own manufacture where these were sold duty-paid was £14,691,000. The value of rebates in respect of alcohol used in the manufacture of medicinal preparations and of drawbacks received in respect of products exported in 1963 was £1,937,000.

(i) Including Customs and Excise duty (net) of £1,349,000.

(j) Administrative, technical and clerical employees.

(k) Including both flat rate and graduated contributions.

(l) Including pensions and gratuities paid other than from pension funds.

(m) Excluding expenditure for establishments not yet in production.

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963 (a)

Firms employing 25 or more persons: United Kingdom

Industry sub-division (b)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
01	INORGANIC CHEMICALS						
	Radioactive and isotopically labelled elements and compounds						
		(c)	..	1,057	*	*	
			..	226	*	*	
	Other than radioactive						
01	Acids						
	Th. tons		Th. tons				
	Hydrochloric (as at 1.14 specific gravity)	202	2,066	276	2,620	16	18
	Hydrofluoric, solutions and anhydrous, in terms of anhydrous	3.8	527	6.0	840	6	6
	Sulphuric (in terms of 100 per cent. acid) (d)	1,242	13,217	1,479	12,266	28	45
	Nitric (in terms of 100 per cent. acid)			162	4,063	*	9
	Phosphoric (in terms of 100 per cent. acid)	..	6,618	19.5	1,700	*	*
	Other inorganic acids			..	1,286	10	11
01	Aluminium compounds (other than bauxite and abrasives)						
	Alums (sodium, potassiums and ammonium)			{ 3.4 .. }	{ 103 151 }	{ 5 }	{ 5 }
	Aluminium oxide						
	Anhydrous (alumina)	..	8,019	..	3,111	*	*
	Hydrated (aluminium hydroxide)			31.5	996	*	5
	Other inorganic aluminium compounds			..	2,731	7	8
01	Ammonia						
	Liquor (in terms of 100 per cent. ammonia) (d)	{ 81.0 .. }	{ 2,960 488 }	{ 72.0 .. }	{ 1,770 .. }	{ 13 .. }	{ 25 .. }
	Anhydrous	..	(c)	208	7,386	*	10
01	Ammonium compounds, excluding phosphates and sulphate						
		..	2,638	..	5,706	16	24
01	Barium salts and compounds (excluding barytes and natural barium carbonate and pigments)						
		31.6	1,097	27.5	1,380	11	12
01	Bleaching materials						
	Bleaching powder (chloride of lime)			16.9	589	*	*
	Hydrosulphites and related compounds, inorganic and organic	{ 37.7 .. }	{ 4,291 .. }	{ 12.2 .. }	{ 1,835 953 }	{ 6 }	{ 6 }
	Hydrogen peroxide (all strengths, in terms of 100 per cent. hydrogen peroxide)			..	2,085	*	*
	Other inorganic bleaching materials, (including percarbonates, perborates, persulphates, sodium peroxide and compounded bleaching agents, etc.)	166	5,885	194	6,277	12	15

TABLE 5 (continued)

Industry sub-division (b)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
	INORGANIC CHEMICALS (continued)						
	Other than radioactive (continued)						
01	Cadmium salts and compounds, including plating salts but excluding phosphates and pigments	2.5	982	..	888	11	11
01	Calcium salts and compounds (other than phosphates)						
	Carbide			..	3,163	*	*
	Chloride	{ 190 .. }	{ 6,917(e) .. }	{ 63.0 .. }	{ 1,058 .. }	{ 8 .. }	{ 8 .. }
	Other sorts, not elsewhere specified			35.0	1,261	13	15
01	Carbon disulphide	65.6	3,338	88.3	4,008	*	*
01	Chlorine	144	4,605	209	4,916	5	5
01	Cobalt oxides, salts and compounds, inorganic, excluding phosphates and pigments	..	(c)	1.9	1,035	*	*
01	Copper sulphate	32.6	1,950	25.4	1,867	5	5
01	Fuller's earth, activated	..	(c)	..	1,146	*	*
01	Lead compounds						
	Lead oxides			25.9	2,207	6	10
	Other inorganic lead compounds excluding pigments (other than white lead, dry and ground)	{ 28.1 .. }	{ 2,736 .. }	{ 2.5 .. }	{ 324 .. }	{ 11 .. }	{ 11 .. }
03	White lead, dry and ground, including ground in oils, in terms of dry content (other than plasticisers containing white lead)			7.5	726	21	22
01	Magnesium salts and compounds (excluding phosphates)	..	4,322	{ 249 .. }	{ 7,285 456 }	{ 17 }	{ 21 }
01	Mercury, refined, and mercury salts and compounds, inorganic (excluding phosphates)	..	(c)	..	1,054	*	*
01	Phosphorus compounds						
	Ammonium phosphates			12.5	569	*	*
	Calcium phosphates	..	(f)	26.5	1,515	6	6
	Sodium phosphates			..	10,848	*	*
	Other inorganic phosphorus compounds (other than rare earth, and silver phosphates)	{ }	{ (c) .. }	{ 15.5 .. }	{ 1,578 .. }	{ * .. }	{ * .. }
01	Potassium salts and compounds, inorganic, (excluding phosphates and compounded preparations for photographic purposes)	8.6	999	27.3	1,983	14	16
01	Rare earth compounds, inorganic and organic (including phosphates)	0.4	506	0.5	505	*	*
01	Sodium salts and compounds (other than water treatment compounds)						
	Carbonate, including soda crystals and soda ash			1,171	14,928	7	8
	Cyanide			26.8	2,254	*	*
	Hydrogen carbonate (bicarbonate)	..	40,183	72.1	1,287	*	*
	Hydroxide (caustic soda)			855	18,704	12	13
	Other and unclassified inorganic sodium compounds (excluding phosphates)			388	10,784	24	30
	Sulphate of all grades (including salt cake)	104	1,180	113	1,070	10	12

Continued on next page

TABLE 5 (continued)

Industry sub-division (b)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
	INORGANIC CHEMICALS (continued)					
	Other than radioactive (continued)					
01	Sulphur	73.6	938	..	859	8 10
01	Tin salts and compounds, inorganic	..	345(g)	0.8	541	8 9
01	Zinc salts and sulphate	..	(c)	..	1,392	19 20
01	Inorganic chemicals, not elsewhere specified					
	Metallic	..	27,574	..	14,526	36 44
	Other			..	4,572	28 35
	Total inorganic chemicals, including white lead, dry		144,386(g)		178,439	.. ..
	ORGANIC CHEMICALS					
	Primary hydrocarbons, synthetic or natural other than compressed gases or for use as fuel					
02	Aliphatic hydrocarbons					
	C ₁ hydrocarbons, total (methane)	91.2	9,154	33.4	1,404	* *
	C ₂ hydrocarbons, total (ethane, ethylene, acetylene)			234	13,007	5 5
	C ₃ hydrocarbons, total (propane, propylene, etc.)			10.2	311	* *
	C ₄ hydrocarbons, total (butane, butylene, butadiene, etc.)	96.7	3,280(h)	83.6	6,555	* *
	C ₅ and higher aliphatic hydrocarbons total (including propylene tetramer, etc.)			47.6	1,482	* *
02	Cyclic hydrocarbons, pure or refined					
	Benzoles	316	12,901	203	8,593	26 33
	Toluoles	35.0	1,968	52.3	2,568	23 29
	Xyloles	23.4	2,240	43.6	4,732	21 27
	Naphthalene	59.4	1,900	73.9	2,169	27 37
	Naphthas (solvent and heavy)	..	1,585	31.0	1,081	24 29
	Other primary cyclic hydrocarbons, pure or refined (excluding phenol and crude coal tar products)	..	1,136	16.0	572 776	16 17
	Other organic chemicals					
02	Radioactive and isotopically labelled elements and compounds					
	Other than radioactive	..	151	..	374	* *
02	Acids					
	Acetic (in terms of 100 per cent. acid)	34.2	4,273	43.4	4,570	7 7
	Citric					
	Salicylic	1.8	454	2.2	467	* *
	Formic			9.4	846	* *
	Tartaric	..	3,567	0.9	201	* *
	Other organic acids (other than crude tar acids)			19.5	3,423	23 25

TABLE 5 (continued)

Industry sub-division (b)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.tons	£'000	Th.tons	£'000	Number	Number
	ORGANIC CHEMICALS (continued)					
	Other organic chemicals (continued)					
	Other than radioactive (continued)					
02	Alcohols					
	Ethyl alcohol					
	Duty-paid	103	8,471	9.0	9,139	* *
	Duty-free			85.0	4,683	* *
	Propyl alcohols	10.0	970	75.0	3,082	5 5
	Butyl alcohols	14.9	1,528	45.3	3,900	* *
	Higher fatty alcohols (i.e. dodecyl alcohol and higher)	2.4	375	4.5	946	* *
	Methyl alcohol	..	9,184(g)	199	5,289	* *
	Other alcohols (excluding sulphonated or sulphated alcohols)			76.0	7,525	10 12
02	Cellulose esters and ethers (including cellulose nitrate)					
	Cellulose acetate flake	..	(i)	44.4	9,014	* *
	Other			14.6	4,409	5 8
02	Chlorinated derivatives of hydrocarbons					
		88.2	6,014	..	17,451	11 12
02	Detergent alkylates (excluding sulphonated products)					
		81.0	5,377	55.8	4,109	5 5
02	Esters, not elsewhere specified					
	Butyl acetate	36.8	5,862	5.5	700	5 5
	Ethyl acetate			7.8	858	* *
	Other			14.4	3,448	22 26
02	Formaldehyde and paraformaldehyde, in terms of 100 per cent. formaldehyde					
		39.4	3,045	34.0	2,363	* 6
02	Glycols, glycol ethers and their esters (other than anti-freeze mixtures) (j)					
	Ethanediol (ethylene glycol)	26.2	4,769	47.0	4,745	* ..
	Propanediol (propylene glycol)			13.3	889	* *
	Other			27.1	3,947	11 12
02	Alkaline earth and heavy metal soaps					
		..	(k)	8.3	1,667	8 9
02	Hexamine					
				4.1	490	* *
02	Ketones					
	Acetone	50.7	3,267	71.3	3,539	6 6
	Other, including iso-butyl methyl ketone and ethyl methyl ketone	..	2,748	40.0	4,799	10 10
02	Methylated spirit, mineralised					
		..	(l)	4.4	363	* *
02	Methyl methacrylate (monomer)					
				27.7	3,878	* *
02	Phenol					
		17.8	2,479	48.3	4,232	12 12

Continued on next page

TABLE 5 (continued)

Industry sub-division (b)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
ORGANIC CHEMICALS (continued)	Th.tons	£'000	Th.tons	£'000	Number	Number
Other organic chemicals (continued)						
Other than radioactive (continued)						
02 Phthalic anhydride	29.2	3,840	44.2	3,553	*	5
02 Sodium compounds, organic	..	(1)	8.2	909	13	15
02 Styrene (monomer)	..	(i)	60.9	5,113	*	*
02 Surface-active material including wetting and emulsifying agents, etc. sulphonated or sulphated alcohols and oils, quaternary ammonium compounds, etc. but excluding scouring preparations and compounded materials primarily for washing purposes in powder, liquid, paste or other forms	46.6	6,108	97.2	11,838	47	59
	..	66				
02 Vinyl acetate (monomer)	..	(i)	6.9	821	*	*
02 Vinyl chloride (monomer)			101	7,124	*	*
02 Organic chemicals, not elsewhere specified (excluding organo-inorganic compounds for medicinal use)						
Metallic	..	2,554(m)	..	1,745	15	16
Other and unclassified	..	41,223(n)	..	45,129	55	65
Total organic chemicals		151,594(g)		234,827	..	..
PIGMENTS						
03 Earth colours, processed or powdered (including ochres and natural iron oxide but excluding blacks)	19.3	611	23.7	848	7	7
03 Inorganic pigment colours, pure or reduced, dry and in pulp form						
Chromium compounds, (including mixed pigments, e.g. lead greens and zinc greens)	9.7	2,445	10.2	2,163	9	13
Iron blues	1.5	441	..	3,176	12	13
Other, except lead oxides	6.8	1,231				
Unclassified	..	316	..	387	*	*
03 Iron oxides, synthetic (o)	12.4	829(g)	10.9	774	8	8
03 Lithopone, dry	34.5	2,037	23.8	1,294	*	*
03 Synthetic organic pigments, pure or reduced	Th.cwt.		Th.cwt.			
Pigment dyestuffs (including toners)	80.0	5,438	114	6,710	15	18
Lakes	1.0	503	1.3	555	10	12
Unclassified	..	273	..	228	*	*
03 Titanium dioxide	89.3	15,045	125	20,378	*	*
03 Zinc oxide	44.2	2,685	40.2	2,821	8	11
Total pigments, excluding white lead, dry		31,854		39,334	..	..

TABLE 5 (continued)

Industry sub-division (b)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
		£'000		£'000	Number	Number
04 COMPRESSED GASES NOT ELSEWHERE SPECIFIED (INCLUDING LIQUEFIED AND SOLIDIFIED)						
Inorganic						
Carbon dioxide and hydrogen	..	3,709	..	6,572	12	22
Other compressed gases inorganic and organic	..	20,772	..	34,112	10	20
Total compressed gases		24,481		40,684	..	..
PHARMACEUTICAL CHEMICALS (chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc., steroids, etc. and vaccines, etc., in all forms but excluding other products put up in measured doses)						
05 Acetylsalicylic acid (aspirin, other than aspirin tablets) and salicylates	Th.kg.		Th.kg.			
	3,809	1,647	4,583	1,778	10	10
05 Alkaloids, their salts and other derivatives						
Morphine, codeine, ethyl morphine and other derivatives of morphine	26.7	1,524	29.2	1,572	7	7
Other and unclassified alkaloids	..	1,031	43.7	504	12	12
			..	245		
05 Anaesthetics, general and local, not elsewhere specified (other than compressed gases)	..	320(p)	..	3,350	11	17
05 Antibiotics						
Penicillin, its salts and derivatives	96.5	4,869	120	1,549	5	5
			..	806		
Streptomycin and dihydro-streptomycin (in terms of base)	82.4	2,831	87.1	606	*	*
Other antibiotics	10.9	906	40.1	1,524	10	12
			..	851		
05 Barbituric acid, its salts and derivatives	292	737	191	603	5	5
05 Insulin (all forms and solutions including sales in measured doses)	Mn.international units		Mn.international units			
	4,253	1,545	3,858	1,344	5	5
05 Other organo-therapeutic extracts of glands or other organs or of their secretions (all forms including sales in measured doses)	..	(k)	..	786	11	13
05 Saccharin, including substances of a like nature or use (other than saccharin tablets)	..	1,813	..	457	*	*
05 Steroid preparations (cortisone, hydrocortisone, etc.) hormones, and similar products having analogous physiological properties, not elsewhere specified (all forms including sales in compounded forms or measured doses)	..	624(q)	..	9,077	*	26
05 Sulphonamides (other than tablets)	..	1,988	883	1,630	10	10

Continued on next page

TABLE 5 (continued)

Industry sub-division (b)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
	PHARMACEUTICAL CHEMICALS (chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extract of glands, etc., steroids, etc. and vaccines, etc., in all forms but excluding other products put up in measured doses) (continued)						
05	Vaccines, sera and other serological products (all forms including sales in measured doses)	..	3,399	..	5,144	11	14
05	Vitamins, provitamins, etc., their salts and esters	..	5,587	..	2,703	11	12
05	Organo-inorganic compounds for medicinal uses, not elsewhere specified	..	7,256(g)	..	387	11	14
05	Other pharmaceutical chemicals, not elsewhere specified	..	7,256(g)	..	9,906	33	39
	Unclassified pharmaceutical chemicals	..	345	..	345	*	*
	Total pharmaceutical chemicals		36,077(g)		45,165	..	..
	MISCELLANEOUS CHEMICAL PRODUCTS						
		Th. tons		Th. tons			
06	Synthetic rubber	7.5	1,809	122	23,634	9	9
		..	452				
08	Additives for liquid fuels and lubricating oils (vegetable and mineral), prepared						
	Anti-knock compounds	..	(r)	80.5	19,012	*	*
	Other (e.g. oxidation inhibitors, viscosity improvers)	..	7,260	38.5	7,199	13	14
08	Anti-freeze mixtures (excluding pure ethylene glycol)	..	(k)	17.2	2,228	32	33
				..	838		
08	Bituminous products (other than for use as paints)						
	Bituminous emulsions	35.3	740	79.8	1,883	12	14
	Other bituminous compounds	42.4	1,367	46.2	2,218	21	23
08	Blacks, mineral and carbon						
	Furnace black	95.1	7,121	125	8,354	7	7
	Other, and unclassified including thermal and lamp black	8.8	480	5.4	337	7	7
08	Carbons, decolourising and other activated	4.0	549	8.1	943	*	*
08	Catalysts prepared for industrial processes	..	2,231	..	4,430	12	13
08	Ceramic colours, glazes and frits						
	Ceramic colours						
	For glass and clayware	0.7	659	0.9	876	7	8
	For vitreous enamels	0.3	762	0.2	207	6	7
	Ceramic glazes for clayware	14.4	1,092	15.4	1,105	9	10
	Frits for vitreous enamels						
	For dry process cast iron			6.7	687	*	*
	For wet process cast iron	17.4	1,780	4.8	432	9	9
	For sheet metal and other metals			12.4	1,271	8	8
	Ceramic glazes for pottery, and frits unclassified	..	531	..	432	*	*

TABLE 5 (continued)

Industry sub-division (b)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
	MISCELLANEOUS CHEMICAL PRODUCTS (continued)						
08	Chemicals for laboratory use, other than radioactive or isotopically labelled (i.e. chemicals for analysis, research or educational purposes but not chemicals used for manufacture)	..	2,128	..	2,416	8	8
07	Coal carbonisation products not elsewhere specified (other than sheep and cattle dips, disinfectants, etc.)	Th. tons		Th. tons			
	Refined coal tar	533	5,730	630	6,678	22	26
	Creosote oils (including anthracene oil)	393	5,176	453	5,248	30	35
	Creosote/pitch mixtures	1,020	9,582	769	6,308	18	21
	Pitch	447	5,136	474	4,966	21	24
	Crude tar acids, including cresylic acid	69.7	4,940	97.7	6,763	20	23
	Other unrefined coal tar derivatives	..	7,960	..	2,543	18	21
08	Finings, etc. (excluding isinglass) for the brewing and similar trades	..	235	..	446	*	*
08	Fire-extinguishing compositions	..	176	..	156	*	*
08	Fluxes for metals, etc.	..	1,189	..	1,309	9	9
08	Food and perfume materials (excluding synthetic perfumery chemicals)						
	Flavouring essences and compounds for foods, etc.	..	5,527	..	6,145	43	48
	Essential oils (natural, other than turpentine)	Th. lb.		Th. lb.			
		1,185	1,538	977	1,022	9	11
				..	1,068		
	Confectioners' colours and other dyes for foods, etc.	..	317	..	487	16	17
08	Perfumery chemicals, synthetic	..	474	..	2,851	11	12
08	Photographic developers and other compounded preparations for photographic purposes	..	1,437	..	3,667	14	14
08	Plasticisers, not elsewhere specified	Th. tons		Th. tons			
	Phthalates	22.7	4,339	66.6	10,260	14	16
	Phosphates	14.5	3,263	20.1	3,712	6	7
	Other plasticisers	5.6	1,591	12.6	3,009	19	19
08	Rosin size	26.9	1,519	24.0	1,582	5	5
08	Rubber-processing chemicals						
	Rubber accelerators	7.9	3,164	11.9	4,886	5	5
	Rubber anti-oxidants	4.8	2,745	9.2	4,859	*	*
	Other rubber-processing chemicals	..	1,316	8.2	1,753	9	11
08	Tanning agents (synthetic organic) and chemicals for use in tanning, not elsewhere specified	4.8	390	35.3	2,287	12	13
08	Textile auxiliaries (e.g. sizes, combing oils, but excluding surface-active materials)	..	2,949(g)	..	4,610	25	29
08	Water treatment compounds (including boiler compositions, etc.)	..	1,829	..	1,758	16	16

Continued on next page

TABLE 5 (continued)

Industry sub-division (b)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
MISCELLANEOUS CHEMICAL PRODUCTS (continued)		£'000		£'000	Number	Number
08 Other chemicals, not elsewhere specified			..	10,866	54	56
Miscellaneous chemical products, unclassified	..	92,745(g)	..	5,091	39	42
OTHER PRODUCTS			..	50,140	46	64
WASTE PRODUCTS						
Tail gas, and products of cracking plants re-sold to refineries, etc.	..	1,168	..	6,620	*	*
Other waste products			..	1,690	43	63
WORK DONE ON COMMISSION, SUB-CONTRACT WORK, ETC.		1,445		1,727	28	32
Total		585,240(g)		781,541	..	..
Sales in other industries (see Table 6)		90,681		127,980	..	..
Principal products of this industry sold by establishments in the industry		494,559		653,471	224	318(s)

- (a) Sales of products derived from petroleum that are identical with those derived from coal tar are included in this table.
- (b) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are the total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (c) The 1958 figures are included with 'Inorganic chemicals, not elsewhere specified'.
- (d) Including sales returned by undertakings classified to the Gas industry in which particulars were required from all undertakings.
- (e) Including calcium phosphates for 1958.
- (f) Included with calcium salts and compounds for 1958.
- (g) Revised figure.
- (h) Excluding some sales of hydrocarbons by oil refineries.
- (i) The 1958 figures are included with 'Organic chemicals not elsewhere specified - other'.
- (j) Not specified as excluding anti-freeze mixtures for 1958.
- (k) Not recorded separately for 1958.
- (l) The 1958 figures are included with 'Organic chemicals not elsewhere specified - metallic'.
- (m) The 1958 figures include 'Aluminium compounds organic' and 'Sodium compounds organic'.
- (n) Including sales of cellulose acetate by firms classified to the Man-made Fibre industry for 1958: such sales amounted to £2,429,000. For 1963 sales are included in the heading 'cellulose acetate flake'.
- (o) Including some blended natural and synthetic iron oxides.
- (p) So far as recorded separately.
- (q) Sales of sex hormones and preparations (natural and synthetic) having analogous physiological activity only. Corticotrophin, cortisone and hydrocortisone salts and derivatives and other similar steroid preparations were included in the report on the Pharmaceutical Preparations industry for 1958, such sales being valued at £3,484,000.
- (r) The 1958 figures are included with 'Other chemicals not elsewhere specified'.
- (s) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1958(a)		1963			Principal industries in which produced (b)
	Quantity	Value	Quantity	Value	Entries	
Inorganic chemicals		£'000	Th.tons	£'000	Number	
Sulphuric and other inorganic acids	..	1,316	131	1,686	12	22,26,30,127
Bleaching materials	14.6	218	5.8	323	5	25,33,35
	..	28				
Copper sulphate: aluminium, ammonium, barium, cadmium, calcium, cobalt, lead, magnesium, mercury, phosphorus, potassium, rare earth, silver, sodium and zinc salts and compounds	..	6,245	..	14,573	52	(c)
Ammonia (liquor and anhydrous)			60.3	1,327	17	22,26,127
Sulphur	..	4,091	57.8	334	5	23,40
Other and unclassified inorganic chemicals			..	6,071	12	(c)
Total inorganic chemicals including white lead, dry		11,897		24,315	..	
Organic chemicals						
Cyclic hydrocarbons, pure or refined						
Benzoles			117	5,413	21	22,23,24
Toluoles			26.1	1,477	17	22,23,28
Xyloles			13.4	829	16	22,23
Naphthalene	..	12,271	30.2	846	21	22,23,33
Naphthas (solvent and heavy)			4.3	182	11	22
Other primary cyclic hydrocarbons			..	823	9	22,23,28
Cellulose esters and ethers			10.2	3,320	8	30,31,34,75
Esters, not elsewhere specified other than butyl and ethyl acetate	..	13,273	2.1	360	5	28,30,31,119
Surface-active material			35.5	4,377	26	24,25,31,33
Other organic chemicals			..	15,295	29	(c)
Total organic chemicals		25,544		32,922	..	
Pigments						
Inorganic pigment colours, pure or reduced, dry and in pulp form	..	1,031	..	1,314	*	25,31,73
Synthetic organic pigments pure or reduced and other pigments	..	3,128	..	3,778	13	25,31,40
Total pigments, excluding white lead, dry		4,160		5,092	..	

Continued on next page

TABLE 6 (continued)

	1958 (a)		1963			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (b)
		£'000		£'000	Number	
Pharmaceutical chemicals (chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc., steroids, etc., and vaccines, etc., in all forms but excluding other products put up in measured doses)			Th.kg.			
Alkaloids, their salts and other derivatives	..	897	10.8	730	11	25, 28
			..	104		
Antibiotics	..	1,045	79.7	1,907	11	25, 28
			..	1,122		
	Mn. inter-national units		Mn. inter-national units			
Insulin (all forms and solutions including sales in measured doses)	4,253	1,545	3,858	1,344	5	28
Anaesthetics, general and local, not elsewhere specified			..	2,421	11	25, 26, 28
Other organo-therapeutic extracts of glands or other organs or of their secretions (all forms including sales in measured doses)			..	561	11	28
Steroid preparations (cortisone, hydrocortisone, etc.), hormones and similar products having analogous physiological properties not elsewhere specified (all forms including sales in compounded forms or measured doses)	..	9,645	..	5,312	22	28
Sulphonamides (other than tablets)			..	1,068	7	25, 28
Vaccines, sera and other serological products (all forms including sales in measured doses)			..	2,947	8	28
Organo-inorganic compounds for medicinal use, not elsewhere specified			Th.kg.			
			36.6	221	5	28
Other pharmaceutical chemicals			..	7,733	30	25, 26, 28, 29
Total pharmaceutical chemicals		13,132		25,469	..	
Miscellaneous chemical products			Th.tons			
Anti-freeze mixtures (excluding pure ethylene glycol)	..	(d)	3.7	623	22	24, 26, 28, 31
			..	838		
Bituminous products (other than for use as paints)	Th.tons 24.8	744	20.3	710	10	31, 107
Coal carbonisations products	..	10,000	..	6,207	9	22, 31, 127
Food and perfume materials (excluding synthetic perfumery chemicals)	..	1,272	..	833	27	(c)

TABLE 6 (continued)

	1958(a)		1963			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (b)
		£'000		£'000	Number	
Miscellaneous chemical products (continued)						
Chemicals for laboratory use, other than radioactive or isotopically labelled			..	201	*	25, 28
Fluxes for metals, etc.			..	1,259	6	40, 42, 50, 73
Photographic developers and other compounded preparations for photographic purposes			..	2,580	7	28, 53
Plasticisers	..	23,932	Th.tons 7.8	1,258	6	25, 31, 34, 107
Tanning agents (synthetic organic) and chemicals for use in tanning			2.4	267	*	25
Textile auxiliaries			..	2,041	8	25, 33
Other products, including some compressed gases			..	23,363	61	(c)
Total		90,681		127,980	..	

(a) Owing to the amalgamation of the Coal Tar Products industry with Chemicals (General) industry the 1958 figures have been revised where necessary.

(b) The references given are to the list of industries at the back of this report.

(c) Production is widely distributed.

(d) Not recorded separately.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1958		1963	
	Quantity	Value	Quantity	Value
		£'000		£'000
Limestone or dolomite, salt, gypsum and other miscellaneous non-metalliferous mining and quarrying products	..	1,316	..	1,066
Crude benzole (including light oils distilling not less than 90 per cent. at 200°C)	..	95	..	60
Miscellaneous food products	..	4,314	..	6,426
Soft drinks and fruit juices	..	1,340	..	1,042
Synthetic organic dyestuffs and preparations for dyeing	..	1,369(a)	..	1,572
Fertilizers and chemicals for pest control	..	3,799	..	6,891
Pharmaceutical preparations	..	7,069	..	8,534
Toilet preparations	..	1,891	..	2,733
Products of the paint and printing ink industry	..	986	..	1,268
Soap, detergents, candles and glycerine	..	4,633	..	5,947
Polishes, gelatine, adhesives etc.	..	306	..	636
Non-ferrous metals and alloys	..	2,813	..	3,003
Refined hydrocarbons, petroleum spirit lubricating oils and greases	..	17,305	..	6,326
Synthetic resins and plastics materials	16,345
Other products including electricity sold	34,559
Services rendered to other organisations (b)	9,501
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	..	40,598	..	92,413
Canteen takings	..	1,515	..	1,947
Total		89,349(c)		200,269

(a) Revised figure.

(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

(c) Excluding amounts charged for services rendered to other organisations.

TABLE 8 Production of certain products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1958		1963					
	Quantity returned in this industry	Quantity returned in all industries	Returned in this industry			Returned in all industries		
			Quantity	Enterprises	Entries	Quantity	Enterprises	Entries
	Th. tons	Th. tons	Th. tons	Number	Number	Th. tons	Number	Number
Inorganic chemicals								
Ammonia								
Liquor (in terms of 100 per cent. ammonia)	(a)	(a)	*	*	*	163	13	25
Anhydrous			*	*	*	220	*	11
Chlorine	368	368	660	6	6	660	6	6
Sodium salts and compounds								
Hydroxide (caustic soda)	(a)	(a)	897	7	8	897	7	8
Pharmaceutical chemicals		Th. kg.	Th. kg.			Th. kg.		
Acetylsalicylic acid (aspirin) (other than aspirin tablets) and salicylates	*	3,720(b)	4,131	*	*	4,148	9	9
Alkaloids, their salts and other derivatives								
Morphine, codeine, ethyl morphine and other derivatives of morphine	*	30.7	*	*	*	39.5	*	*
Other alkaloids	*	185	67.3	*	5	70.8	9	10
Antibiotics								
Penicillin, its salts and derivatives	*	129	*	*	*	205	7	7
Other antibiotics			*	*	*	190	10	10
Barbituric acid, its salts and derivatives	(a)	(a)	*	*	*	205	5	5
Sulphonamides (other than in tablet form)			*	*	*	1,013	7	7

(a) Not recorded separately.

(b) For 1958 the figures did not include salicylates.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

Standard Industrial Classification	Purchasing industry (b)	Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.)
		Cost
		£'000
263	Lubricating oils and greases	4,765
271/1	Dyestuffs	16,947
271/2	Fertilizers and chemicals for pest control	21,440
271/3	General chemicals	130,738
272/1	Pharmaceutical preparations	15,404
274	Paint and printing ink	17,206
275/2	Soap, detergents, candles and glycerine	20,111
276	Synthetic resins and plastics materials	52,675
311	Iron and steel (general)	7,296
351	Scientific, surgical and photographic instruments, etc.	4,063
411	Production of man-made fibres	25,192
423	Textile finishing	4,423
463	Glass	7,642
481	Paper and board	4,523
491	Rubber	7,045
496	Plastics moulding and fabrication	4,953
499	Miscellaneous manufacturing industries	6,142
	Other industries	35,175
	Total	385,740

(a) The figures include purchases of imported as well as of home produced goods.

(b) Specified Census industries for which purchases are one per cent. or more of the total.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963

Firms employing 25 or more persons: United Kingdom

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing	Th.tons	£'000	Th.tons	£'000
Feedstock from petroleum, including gaseous feedstock	..	7,019	2,155	18,912
Crude coal tar for distillation	1,931	11,458	2,032	13,893
Crude or semi-refined benzole for refining	..	2,570	731	7,133
Crude tar acids and other derivatives of coal tar, not elsewhere specified (including creosote and anthracene oils, cresylic acid, etc., but excluding primary cyclic hydrocarbons and phenol)	..	4,652	..	4,458
Coal and coke other than for use as fuel	844	4,255	553	4,191
Barium sulphate (barytes) and natural barium carbonate	..	534	..	418
Bauxite	..	(a)	..	1,369
Essential oils (other than turpentine)	..	1,678	..	3,518
Limestone and lime	..	1,944	..	3,198
Lead, metallic	46.0	4,383	52.0	3,357
Mercury	..	1,260	..	476
Molasses	..	2,915	..	769
Phosphate rock (mineral phosphate of lime)	..	1,592	..	1,571
Sulphur (elemental)	..	4,194	..	(a)
Sulphur-bearing materials (including anhydrites, pyrites, spent oxide, but excluding elemental sulphur)	..	3,101	..	4,009
Salt and brine	..	1,586	..	2,071
Silicon and silicon bearing minerals	..	(b)	..	1,195
Tin	Th.cwt.		Th.cwt.	
	11.4	414	17.3	646
Zinc and zinc dust	Th.tons		Th.tons	
	34.0	2,878	51.0	3,266
Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.)				
Inorganic				
Acids				
Sulphuric (in terms of 100 per cent. acid)	316	3,110	461	3,453
Nitric (in terms of 100 per cent. acid)	19.7	576	24.8	683
Phosphoric (in terms of 100 per cent. acid)	..	(b)	2.1	211
Aluminium oxide anhydrous (alumina) and hydrated (aluminium hydroxide)	..	(b)	13.3	470
Ammonia				
Liquor (in terms of 100 per cent. ammonia)	54.3	1,442	48.7	1,449
Anhydrous	14.8	565	7.5	323
Calcium carbide	131	4,403	..	(a)
Calcium chloride	..	(b)	12.9	174
			..	89
Chlorine	91.7	2,294	157	3,502
Sodium carbonate including soda crystals and soda ash	211	2,214	224	2,877
Sodium hydroxide (caustic soda)	118	1,940	260	4,191
Other inorganic chemicals not elsewhere specified	..	2,568	..	19,491

Continued on next page

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing (continued)		£'000		£'000
Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc.) (continued)				
Organic				
Primary hydrocarbons, synthetic or natural, other than for use as fuel				
Aliphatic hydrocarbons, (ethane, ethylene, propylene, propylene tetramer, butadiene, etc.)	..	(b)	..	12,840
Cyclic hydrocarbons, (benzoles, toluoles, xyloles, naphthas, naphthalene, etc., excluding crude benzole and other unrefined products of coal tar)	..	2,839	..	9,838
			Th. tons	
Acetic acid and acetic anhydride	..	920	17.3	1,419
	Th. tons			
Acetone	11.8	968	38.1	1,876
Alcohols				
Methyl alcohol	..	2,470	95.0	2,509
Ethyl alcohol				
Duty-paid	..	796	0.3	985
Duty-free	..	3,132	87.0	4,592
			..	572
Butyl alcohol	6.6	963	12.0	1,160
Other alcohols	30.1	1,128	75.3	6,333
Chlorinated hydrocarbons	..	(b)	43.9	2,647
Maleic anhydride	..	(b)	0.8	93
Phenol	5.8	899	14.3	1,634
Phthalic anhydride	9.7	1,254	26.0	2,214
Other organic chemicals not elsewhere specified	..	1,694	..	35,060
Other heavy chemicals not elsewhere specified (including compressed gases, etc., but excluding gases for use as fuel or feedstock)	..	66	..	7,699
Synthetic organic dyestuffs intermediates (including aniline and aniline oil)	..	1,674	..	2,678
			Th. gal.	
			5,151	688
Lubricating oils and greases	..	(b)	Th. cwt.	
			9.5	34
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	8,822	..	14,096
All other materials for processing	..	74,914	..	62,199
Packaging materials				
Paper and board				
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard	..		..	2,064
			Millions	
Multiwall paper sacks	..	1,500	45.2	2,369
Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal), moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard	..		..	306

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
Packaging materials (continued)		£'000		£'000
Metal				
Cans and boxes			..	1,237
			Thousands	
Barrels, kegs and drums			5,258	6,303
Aluminium collapsible tubes, aluminium foil, and any laminates incorporating aluminium foil and aluminium foil labels and closures	..	3,451	..	80
Other packaging materials of metal including crown corks, wire, foil and any laminates incorporating foil (other than aluminium foil), foil labels and foil closures, tensional steel strappings, etc.			..	914
Timber				
Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates			..	440
			Th. cu. ft.	
Timber (sawn or planed) for manufacture into packing cases, etc.	..	604	11.1	7
			..	2
			Th. sq. ft.	
			58.4	1
			..	1
Plywood for manufacture into packing cases			..	23
Other wood products for packaging, including wood wool	..	(b)	..	23
			Th. gross	
			272	498
Glass containers (including glass syphons)	..	1,331	..	584
Plastics				
Moulded and fabricated packs and containers (e.g. bottles and bottle caps) wholly or mainly of polyethylene	..	(c)	..	788
Sheet, film, foams, etc., wholly or mainly of polyethylene (including bags and lay flat tubing)	..		..	153
Jute and hessian piece goods, sacks and bags			..	750
All other packaging materials	..	4,640	..	1,403
Fuel and electricity (d)	Th. tons		Th. tons	
Coal	3,622	11,652	3,965	18,707
Coke (including screenings) and manufactured fuel	299	1,428	202	1,519
	Th. gal.		Th. gal.	
Derv fuel and motor spirit for use in road vehicles	5,711	1,069	7,832	1,396
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	59,917	2,276	232,720	8,391
	..	256	..	
	Th. therms		Th. therms	
	18,267	634	24,771	1,077
	..	269	..	
Gas	Th. kWh		Th. kWh	
	3,548,477	11,538	7,093,372	25,772
Electricity				
Total cost of materials and fuel		218,731		358,679
Goods purchased for merchanting		..		80,271
Canteen purchases		..		1,646
Total cost of purchases		..		440,596

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given and it has been included with 'All other materials for processing'.

(b) Not recorded separately.

(c) Included in 'All other packaging materials'.

(d) The total quantity of electricity generated in firms' own establishments in this industry was 1,629,550 Th.kWh in 1954 and 7,399,636 Th.kWh in 1963.

TABLE 11 Transport costs and employment of larger firms, 1963

Firms employing 25 or more persons: United Kingdom

	Unit	1963
Average number employed mainly on transport	No.	4,555
Transport costs		
Wages and salaries	£'000	4,310
Derv fuel and motor spirit	"	1,396
Payments to other organisations for transport	"	19,517
Costs of operating road goods vehicles		
Insurance	"	208
Vehicle licences	"	331
Depreciation	"	1,328
Payments to other organisations for repairs and maintenance	"	509
Total	"	27,598

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

	Amounts payable
Repairs and maintenance to	£'000
Buildings	1,205
Road goods vehicles	509
Plant, machinery, and other capital equipment	5,615
Insurance, licensing and depreciation of road goods vehicles (b)	1,867
Rates, excluding water rates	5,226
Hire of plant and machinery	781
Postage, telephone, telegrams and cables	2,049
Total	17,253

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963

Firms employing 25 or more persons: United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
1963	Per cent.	1963 (contd.)	Per cent.
April (a)	2.1	November	1.4
May	0.1	December	58.5
June	6.0		
July	1.2	1964	
August	0.4	January	0.1
September	2.5	February	0.7
October	0.7	March	26.3
		Total	100

(a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

Capital Expenditure (continued)**(ii) Land and existing buildings.**

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packing materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanting or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

Small Firms

These are firms in which fewer than twenty-five persons were employed on the average during the year.

Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

Transport Payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and Salaries

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded; in Northern Ireland this exclusion extends also to payments to directors of limited companies. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to National Insurance and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

Symbols used

The following symbols are used throughout the report:

- .. Not available
- Nil or negligible (less than half the final digit shown)
- * Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

Rounding of Figures

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

List of Industry Reports, etc

Part No. and title

- 1 Introductory Notes
- 2 Coal Mining
- 3 Stone and Slate Quarrying and Mining
- 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying
- 6 Salt and Miscellaneous Non-metalliferous Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery
- 14 Fruit and Vegetable Products
- 15 Animal and Poultry Foods
- 16 Margarine
- 17 Starch and Miscellaneous Foods
- 18 Brewing and Malting
- 19 Spirit Distilling and Compounding
- 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining
- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers and Chemicals for Pest Control
- 27 General Chemicals
- 28 Pharmaceutical Preparations
- 29 Toilet Preparations
- 30 Explosives and Fireworks
- 31 Paint and Printing Ink
- 32 Vegetable and Animal Oils and Fats
- 33 Soap, Detergents, Candles and Glycerine
- 34 Synthetic Resins and Plastics Materials
- 35 Polishes
- 36 Gelatine, Adhesives, etc.
- 37 Iron and Steel (General)
- 38 Steel Tubes
- 39 Iron Castings, etc.
- 40 Non-ferrous Metals
- 41 Agricultural Machinery (except Tractors)
- 42 Metal-working Machine Tools
- 43 Engineers' Small Tools and Gauges
- 44 Industrial Engines
- 45 Textile Machinery and Accessories
- 46 Contractors' Plant and Quarrying Machinery
- 47 Mechanical Handling Equipment
- 48 Office Machinery
- 49 Miscellaneous (Non-electrical) Machinery
- 50 Industrial Plant and Steelwork
- 51 Ordnance and Small Arms
- 52 General Mechanical Engineering
- 53 Scientific, Surgical and Photographic Instruments, etc.
- 54 Watches and Clocks
- 55 Electrical Machinery
- 56 Insulated Wires and Cables
- 57 Telegraph and Telephone Apparatus
- 58 Radio and Other Electronic Apparatus
- 59 Domestic Electrical Appliances
- 60 Miscellaneous Electrical Goods
- 61 Shipbuilding and Marine Engineering
- 62 Motor Vehicle Manufacturing
- 63 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 64 Aircraft Manufacturing and Repairing
- 65 Locomotives and Railway Track Equipment
- 66 Railway Carriages and Wagons and Trams
- 67 Perambulators, Hand-trucks, etc.
- 68 Tools and Implements

Part No. and title

- 69 Cutlery
- 70 Bolts, Nuts, Screws, Rivets, etc.
- 71 Wire and Wire Manufactures
- 72 Cans and Metal Boxes
- 73 Jewellery, Plate and Refining of Precious Metals
- 74 Miscellaneous Metal Manufactures
- 75 Production of Man-made Fibres
- 76 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 77 Weaving of Cotton, Linen and Man-made Fibres
- 78 Woollen and Worsted
- 79 Jute
- 80 Rope, Twine and Net
- 81 Hosiery and Other Knitted Goods
- 82 Lace
- 83 Carpets
- 84 Narrow Fabrics
- 85 Household Textiles and Handkerchiefs
- 86 Canvas Goods and Sacks
- 87 Textile Finishing
- 88 Asbestos
- 89 Miscellaneous Textile Industries
- 90 Leather (Tanning and Dressing) and Fellmongery
- 91 Leather Goods
- 92 Fur
- 93 Weatherproof Outerwear
- 94 Men's and Boys' Tailored Outerwear
- 95 Women's and Girls' Tailored Outerwear
- 96 Overalls and Men's Shirts, Underwear, etc.
- 97 Dresses, Lingerie, Infants' Wear, etc.
- 98 Hats, Caps and Millinery
- 99 Corsets and Miscellaneous Dress Industries
- 100 Gloves
- 101 Footwear
- 102 Bricks, Fireclay and Refractory Goods
- 103 Pottery
- 104 Glass
- 105 Cement
- 106 Abrasives
- 107 Miscellaneous Building Materials, etc.
- 108 Timber
- 109 Furniture and Upholstery
- 110 Bedding and Soft Furnishings
- 111 Shop and Office Fitting
- 112 Wooden Containers and Baskets
- 113 Miscellaneous Wood and Cork Manufactures
- 114 Paper and Board
- 115 Cardboard Boxes, Cartons and Fibre-board Packing Cases
- 116 Miscellaneous Manufactures of Paper and Board
- 117 Printing and Publishing of Newspapers and Periodicals
- 118 General Printing, Publishing, Bookbinding, Engraving, etc.
- 119 Rubber
- 120 Linoleum, Leathercloth, etc.
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