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BOARD OF TRADE

Report on the Census of Production 1963

60 Miscellaneous electrical goods



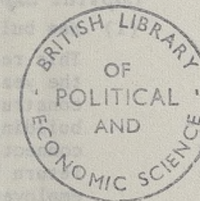
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BOARD OF TRADE

Report on the Census of Production 1963

60 Miscellaneous electrical goods

*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)*



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.

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Miscellaneous electrical goods

This Report on the Miscellaneous Electrical Goods Industry relates to establishments engaged wholly or mainly in manufacturing lighting, starting and ignition sets, dynamos, dashboard instruments for road vehicles, electric horns, traffic indicators and similar electrical equipment for motor vehicles, cycles and aircraft; primary batteries, secondary batteries (accumulators); electric lamps of all types, including filament lamps, fluorescent tubes, gas discharge lamps and neon, etc. tubes for advertising, and parts of lamps other than glass envelopes; electrical wiring accessories, such as lampholders, ceiling roses, plugs and sockets, switches, etc.; electric lighting fittings (but not glassware therefor); searchlights, flashlight cases and all other types of electrical goods not reported elsewhere; the report includes time switches but electric clocks and time recorders are excluded.

This industry corresponds to minimum list heading 369 in the Standard Industrial Classification (Consolidated edition, 1963).

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.	735	902	
Number of establishments	"	862	1,041	
Gross output	£'000	200,195	269,743	
Net output	"	96,114	138,282	
Net output per head	£	922	1,239	
Sales and work done	{ goods produced and work done	£'000	190,763	246,350(b)
	{ merchanted goods and canteen takings	"	8,517	23,487
Purchases	{ materials for processing and packaging, and fuel	"	98,983	108,035
	{ goods for merchanding and canteen purchases	"			19,804
Payments to other organisations	{ for work done on materials given out	"	3,596	3,230
	{ for transport	"	1,884	2,170
Stocks and work in progress				
Total stocks and work in progress	{ change during year	"	+ 1,297	+ 1,685
	{ at end of year	"	38,561	53,652
Goods on hand for sale	{ change during year	"	+ 927	- 455
	{ at end of year	"	11,778	16,608
Work in progress	{ change during year	"	- 12	+ 362
	{ at end of year	"	11,239	13,969
Materials, stores and fuel	{ change during year	"	+ 382	+ 1,779
	{ at end of year	"	15,544	23,074
Average number employed	{ total, including working proprietors	Th.	104.2	111.6
	{ operatives	"	79.6	85.0
	{ other employees (c)	"	24.4	25.6
Wages and salaries	{ of operatives	£'000	39,563	48,097
	{ of other employees (c)	"	17,188	22,126
Employers' contributions to National Insurance and private pension schemes, etc. (d)	"	..	4,468	
Capital expenditure (e)				
Total	"	..	12,184	
New building work	"	1,811	2,789	
Land and existing buildings (f)	"	..	1,538	
Plant and machinery (f)	"	3,467	7,142	
Vehicles (f)	"	479	715	

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 6 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 5 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) Administrative, technical and clerical employees.

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

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

(f) 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)			
		Electrical equipment for motor vehicles, cycles and aircraft		Primary batteries	
		10	20	1958	1963
		1958	1963	1958	1963
Number of enterprises (d)	No.	29	34	7	9
Number of establishments	"	49	64	24	24
Gross output	£'000	66,801	74,267	16,368	21,756
Net output	"	29,164	38,161	7,988	12,073
Net output per head	£	930	1,165	902	1,275
Sales and work done	£'000	goods produced and work done		14,777	20,856(e)
		merchanted goods and canteen takings		1,492	843
Sales of characteristic products	"	52,289	58,724	12,388	18,345
Index of specialisation (g)	Per cent.	83	84	84	88
Purchases	£'000	materials for processing and packaging, and fuel		7,991	8,673
		goods for merchandising and canteen purchases		4,017	770
Payments to other organisations	"	for work done on materials given out		19	21
		for transport		383	393
Stocks and work in progress					
Goods on hand for sale	"	change during year		+ 74	+ 80
		at end of year		948	1,575
Work in progress	"	change during year		+ 25	- 23
		at end of year		635	789
Materials, stores and fuel	"	change during year		+ 12	+ 175
		at end of year		1,512	2,271
Average number employed	No.	total, including working proprietors		8,853	9,463
		operatives		6,781	7,539
		other employees (h)		2,072	1,922
Wages and salaries	£'000	of operatives		2,906	3,954
		of other employees (h)		1,335	1,647
Wages and salaries per head	£	operatives		429	524
		other employees (h)		644	857
Employers' contributions to National Insurance (i)	£'000	..	725	..	243
Employers' contributions to private pension schemes, etc. (j)	"	..	509	..	162
Capital expenditure (k)					
New building work	"	286	1,089	31	125
Land and existing buildings	"	acquisitions		..	-
		disposals		..	-
Plant and machinery	"	acquisitions		369	781
		disposals		-	24
Vehicles	"	acquisitions		68	94
		disposals		5	12

Sub-divisions of the industry (b)									
Secondary batteries (accumulators)	Electric lamps	Other electrical goods				Total		Total	
		Total	Total	Electric lighting fittings and accessories	Other electrical goods				
		30	40	50	51	1958	1963	1958	1963
16	13	38	44	168	153	93	62	250	245
21	17	70	76	195	182	112	70	359	363
22,137	27,762	28,567	52,122	55,807	76,951	50,454	26,498	189,679	252,859
9,520	12,932	16,055	26,369	28,339	40,093	24,772	15,321	91,066	129,627
1,142	1,501	882	1,326	886	1,181	1,180	1,181	922	1,239
20,816	25,542(e)	27,653	42,564(e)	54,662	71,995(e)	47,214(e)	24,781(e)	180,743	230,931(e)
1,437	2,238	1,144	10,481	991	4,126	2,635	1,491	8,070	22,017
19,756	24,709	20,822	32,313	38,904	56,325	38,308	17,452	(f)	(f)
95	97	75	76	71	78	81	70	86	88
12,518	12,769	11,954	16,086	26,263	32,456	22,705	9,751	93,784	101,273
12	53	66	346	740	1,231	976	255	3,407	3,028
216	298	451	613	542	498	387	110	1,785	2,034
+ 62	- 4	- 169	- 543	+ 81	+ 322	+ 246	+ 76	+ 878	- 427
1,635	2,206	3,810	5,448	2,309	3,308	2,395	913	11,159	15,569
- 178	- 13	- 61	- 380	+ 73	+ 508	+ 359	+ 149	- 12	+ 339
1,209	1,133	1,429	1,948	3,844	5,921	2,787	3,134	10,649	13,095
+ 129	+ 181	- 40	+ 70	+ 77	+ 432	+ 389	+ 43	+ 362	+ 1,667
1,942	2,310	2,560	4,140	5,533	8,206	5,824	2,383	14,728	21,630
8,338	8,617	18,210	19,886	31,974	33,940	20,976	12,964	98,725	104,640
5,530	5,653	13,468	14,639	25,244	25,649	16,228	9,421	75,565	80,294
2,806	2,956	4,742	5,217	6,722	8,175	4,674	3,501	23,148	24,171
3,396	4,491	5,901	7,989	11,617	13,558	8,423	5,135	37,544	45,420
1,937	2,525	3,160	4,374	4,704	7,141	4,156	2,984	16,310	20,894
614	794	438	546	460	529	519	545	497	566
690	854	666	838	700	873	889	852	705	864
..	264	..	456	..	847	501	346	..	2,536
..	285	..	321	..	407	196	210	..	1,684
138	180	382	136	879	1,086	470	616	1,716	2,614
..	333	..	567	..	572	499	73	..	1,548
..	-	..	34	..	69	63	5	..	106
268	428	671	1,660	865	2,028	1,368	659	3,436	6,952
6	7	22	102	50	39	32	7	151	257
57	75	102	266	287	319	202	117	638	928
20	10	20	77	106	102	66	36	184	258

For notes to this table - see page 60/7

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		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						
25-49	65	67	2,591	£'000 6,022	£'000 2,994	£ 1,156	£'000 151	£'000 931
50-99	63	77	4,646	9,976	5,260	1,132	339	1,920
100-199	47	55	6,660	14,611	7,567	1,136	768	2,919
200-299	18	19	4,424	10,717	5,617	1,270	273	1,972
300-399	13	20	4,574	11,910	6,335	1,385	619	2,939
400-499	12	26	5,322	11,685	6,116	1,149	430	3,271
500-749	10	23	5,689	15,510	8,971	1,577	495	3,277
750-1,499	6	11	7,402	15,249	8,301	1,121	442	4,675
2,000-2,999	3	8	6,852	15,909	9,591	1,400	1,492	2,520
3,000-4,999	3	14	11,914	20,683	11,101	932	1,020	5,350
5,000 and over	5	43	44,566	120,587	57,777	1,296	5,393	20,519
Total	245	363	104,640	252,859	129,627	1,239	11,421	50,294

(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)
25-49	1,965	551	1,074	528	72	16	546	958
50-99	3,574	1,022	1,782	903	117	34	498	884
100-199	5,063	1,564	2,588	1,390	176	83	511	889
200-299	3,298	1,116	1,809	915	108	45	549	820
300-399	3,552	1,019	1,786	946	116	59	503	928
400-499	3,943	1,379	2,159	1,100	134	74	547	798
500-749	4,266	1,423	2,571	1,388	152	134	603	975
750-1,499	5,180	2,218	2,661	1,739	197	101	514	784
2,000-2,999	5,306	1,546	2,971	1,301	162	150	560	842
3,000-4,999	9,479	2,435	3,782	1,903	191	157	399	782
5,000 and over	34,668	9,898	22,237	8,782	1,111	831	641	887
Total	80,294	24,171	45,420	20,894	2,536	1,684	566	864

(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 £139,000.

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	2	4	6
18 and over	54	40	94
All ages	56	44	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

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 6 per cent. of the employment shown for 1963 and 1 per cent. for 1958.

	1958	1963
Number of firms	489	670
Average number employed:		
Working proprietors	5,036	828
Other persons employed			5,764

(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) Total figures only are available for 1958.

(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 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) Administrative, technical and clerical employees.

(i) Including both flat rate and graduated contributions.

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

(k) 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

Firms employing 25 or more persons: United Kingdom

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
10	Thousands	£'000	Thousands	£'000	Number	Number
Electrical equipment for motor vehicles, cycles and aircraft and for other internal combustion engines (excluding accumulators and bulbs)						
Coils, ignition	}	1,335	3,643	1,331	15	15
Dynamo lighting sets for cycles and dynamos therefor			619	460	*	*
Magnetos, ignition						
For motor vehicles, motor cycles and three-wheelers	372	1,017	59.0	397	5	5
Other	93.3	532	68.9	152	}	*
			..	114		
Measuring instruments, indicating, for motor vehicles so far as separately recorded						
Complete	}	100 43	5,061	2,539	12	13
Parts							-	-	..	204	5	5
Sparking plugs (other than for aircraft)	}	3,226 570	62,000	6,385	8	9
Horns			1,522	1,501	*	*
Lighting and starting sets for motor vehicles (including lamps not sold separately, but not accumulators)			699	4,210	}	16
			..	12,184		
Other electrical equipment (including lamps complete, with or without bulbs) not elsewhere specified		43,328				
For motor vehicles, motor cycles and three-wheel vehicles			..	39,566	62	69
For aircraft		16,175	..	12,419	36	40
Batteries and accumulators	Th.cells		Th.cells			
20 Primary batteries and cells						
Complete	1,088,077	12,033	1,054,450	15,767	}	11
			..	1,888		
Parts, other than carbons	..	599	..	797	*	5
30 Accumulators						
Complete						
Portable	Th. batteries		Th. batteries			
For motor vehicle starting, lighting and ignition	3,784	13,223	5,054	17,307	11	13
For traction	372	2,653	513	3,978	*	6
Other	}	3,060 228	1,089	2,753	7	10
Stationary						
Of lead-acid type	}	383	1,057	3,570	5	8
Other								1,631
Parts and accessories	..	3,420	..	3,123	10	14

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
40	Thousands	£'000	Thousands	£'000	Number	Number
Electric lamps						
Electric lamps, filament type, complete, ready for use						
Not over 28 volts						
Flash lamps (excluding photo-flash bulbs), radio panel and cycle dynamo lamps	33,437	451	37,162	661	9	9
Motor vehicle types	53,713	1,987	89,856	4,082	14	14
Other	18,230	566	15,930	588	}	12
			..	210		
Over 28 volts	185,689	10,396	245,751	12,786	19	22
Parts of electric lamp bulbs						
Photoflash lamps for photographic and other purposes	}	(b)	..	1,873	*	*
Discharge lamps, luminous tubes, fluorescent tubes and tube signs						
Complete						
Advertising types, i.e. high tension cold cathode tubes over 300 volts	..	1,333	..	3,098	21	22
Other types						
Other fluorescent tubular lamps	10,558	2,444	19,988	4,987	15	16
Other discharge lamps, etc., not over 300 volts						
Not over 5 watts	..	119	}	3,051	7	7
Over 5 watts	936	1,466				
Parts other than glass envelopes	..	1,760(c)	..	1,416	6	6
50						
Electric lighting fittings and accessories						
Fittings (ceiling, wall, standard, portable or pendant) excluding glassware, transformers and capacitors (d)						
Auxiliary gear for discharge lighting	..	3,650	..	3,768	18	20
Lighting fittings, not elsewhere specified						
Domestic, decorative and commercial	..	4,321	..	7,167	47	49
Industrial, including flood-lighting and shop window lighting	..	8,012	..	12,499	48	53
Street lighting	..	2,408	..	2,095	20	22
Wiring accessories, up to 250 volts, 30 amps (e.g. lampholders, ceiling roses, wall plugs and sockets, switches, etc.) not elsewhere specified						
Mainly of brass	..	2,475	..	5,301	30	30
Mainly of plastics materials	..	9,284	..	13,374	53	61

Continued on next page

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
50		£'000		£'000	Number	Number
Electric lighting fittings and accessories (continued)						
Wiring accessories, up to 250 volts, 30 amps (e.g. lampholders, ceiling roses, wall plugs and sockets, switches, etc.) not elsewhere specified (continued)						
Other (porcelain, etc.)	..	3,069	..	6,491	25	25
Unclassified	..	2,722	..	5,290	13	13
Home wiring kits, complete	..	..	..	540	*	*
Electric bell apparatus, not telegraphic or telephonic	..	979	..	1,600	12	12
51						
Other electrical goods						
Joint boxes	..	3,022	..	4,960	19	21
Lamps (other than lamps for motor vehicles and aircraft) and bulbs						
Flashlight cases of all types, complete (exclusive of bulbs and batteries)	Thousands		Thousands			
Adapted for use on cycles	..	..	..	2,485	287	*
Other	4,549	688	..	2,602	507	*
..			..	169	..	*
Arc lamps, electric searchlights and projection lamps, including parts (except bulbs sold separately)	..	563	..	322	6	6
Other lamps						
Complete, with or without bulbs	..	960	..	521	612	15
Parts, except bulbs	..	..	..	403	409	5
Magnets, permanent, other than of steel	..	(e)	..	839	5	6
Permanent hair-waving apparatus (including hood driers)	..	308	..	376	*	*
Time switches and process timers and parts thereof	..	3,475(f)	..	6,549	29	34
Other electrical goods not elsewhere specified	..	13,648(g)	..	22,791(h)	128	146
Government contracts not further defined	..	..	..	492	*	*
Other products	..	762	..	689	18	18
Scrap metals			Th.tons			
Iron and steel	..	70	..	9.6	60	67
Copper	..	155	..	33	301	46
Brass	..	1,280	..	1.6	533	70
Other metals	..	322	..	3.7	451	69
Other waste products	..	165	..	..	174	34

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
		£'000		£'000	Number	Number
Work done						
Machinery purchased and installed and other installation work		238		222	8	8
Repair and maintenance work on customers' machinery, plant, apparatus and appliances		1,959		2,468	45	49
Research and development work done for customers (including Government Departments)		964		255	22	23
Other work done on commission		217		720	22	22
Total		189,413		266,145	..	..
Sales in other industries (see Table 6)		33,760		63,157	..	..
Principal products of this industry sold by establishments in the industry		155,653		202,988	245	274(i)

(a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.

(b) Not recorded separately for 1958.

(c) Including parts of electric lamp bulbs, filament type for 1958.

(d) For 1958, transformers and capacitors were not specifically excluded.

(e) Permanent magnets were included in the report on the Iron and Steel (General) industry for 1958.

(f) Excluding parts for 1958.

(g) Including photoflash lamps for photographic and other purposes, and parts of flashlight cases for 1958.

(h) Other classes of electrical goods are shown separately in the following reports viz.:

Electrical Machinery (Part 55)
Insulated Wires and Cables (Part 56)
Telegraph and Telephone Apparatus (Part 57)
Radio and Other Electronic Apparatus (Part 58)
Domestic Electrical Appliances (Part 59)

(i) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown 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		1963			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Electrical equipment for motor vehicles, cycles and aircraft and for other internal combustion engines (excluding accumulators and bulbs)						
Coils, ignition and lighting and starting sets for motor vehicles (including lamps not sold separately, but not accumulators)			..	4,581	21	52,55,58,62
Magnetos, ignition			..	159	*	49,55
Other electrical equipment (including lamps complete, with or without bulbs) not elsewhere specified	..	15,338				
For motor vehicles, motor cycles and three-wheel vehicles			..	8,597	47	55,56,58,62
For aircraft			..	9,506	31	55,58,59,64
Batteries and accumulators	..	437	..	1,265	9	55,58,107,119
Electric lamps						
Electric lamps, filament type, complete, ready for use						
Discharge lamps, luminous tubes, fluorescent tubes and tube signs, complete and parts	..	758	..	1,448	8	55,58,124,126
Electric lighting fittings and accessories						
Fittings (ceiling, wall, standard, portable or pendant) excluding glassware, transformers and capacitors						
Auxiliary gear for discharge lighting	..	1,084	..	338	7	55,58,59
Lighting fittings, not elsewhere specified						
Domestic, decorative and commercial	..	667	..	777	9	55,58,59,74
Industrial, including flood-lighting and shop window lighting	..	1,466	..	1,932	16	38,55,57,59
Street lighting	..	219	..	740	6	40,55,59,74
Wiring accessories, up to 250 volts, 30 amps (e.g. lamp-holders, ceiling roses, wall plugs and sockets, switches, etc.) not elsewhere specified						
Mainly of brass	..	774	..	734	12	38,56,57,59
Mainly of plastics materials	..	3,023	..	4,826	45	53,55,59,124
Other (porcelain, etc.)	..	697	..	5,289	14	38,55,56,59
Unclassified						
Electric bell apparatus, not telegraphic or telephonic	..	387	..	2,792	8	53,55,57,58

TABLE 6 (continued)

	1958		1963			Principal industries in which produced (a)
	Quantity	Value	Quantity	Value	Entries	
		£'000		£'000	Number	
Other electrical goods						
Joint boxes	..	2,600	..	3,966	13	55,56,57
Time switches and process timers and parts thereof (b)	..	391	..	1,727	23	54,55,57,59
Lamps (other than lamps for motor vehicles and aircraft) and bulbs						
Flashlight cases of all types, complete (exclusive of bulbs and batteries)	..	5,918(c)	..	169	*	59,98,124
Arc lamps, electric search-lights and projection lamps, including parts (except bulbs sold separately) and other lamps			Thousands			
			468	70	11	47,55,59
			..	519		
Other			..	13,722	96	55,56,58,62
Total		33,760		63,157	..	

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

(b) Excluding parts for 1958.

(c) For 1958 permanent hair-waving apparatus (including hood driers) was also included.

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
	Value	Value
	£'000	£'000
Mechanical handling equipment	510	195
Miscellaneous non-electrical machinery and parts		1,770
Engineers' small tools and gauges	2,094	373
Other mechanical engineering products		890
Industrial plant and steelwork		1,172
Scientific, surgical and photographic instruments, etc.		
Scientific instruments	1,643	254
Other		1,964
Electrical machinery		
Switchgear and switchboards, complete and parts	555	110
Starting and controlling gear, complete and parts	2,383	870
Other electrical machinery		1,196
Insulated wires and cables, including cable jointing materials and accessories (a)	3,620	1,514
Telegraph and telephone apparatus		
Components and parts of telegraph, telephone and signalling apparatus	395	311
Other		94
Radio and other electronic apparatus	3,639	4,308
Domestic electrical appliances		
Portable electric fires	4,387	328
Other		5,417
Parts and accessories of motor vehicles, motor cycles, three-wheeled vehicles, cycles, aircraft and locomotives (b)	1,727	1,108
Miscellaneous metal manufactures	591	1,034
Goods wholly or mainly of plastics materials	832	1,284
Glass	2,036	236
Other products		1,990
Building work done	677	1,380
Services rendered to other organisations (c)	..	141
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	7,626	21,496
Canteen takings	444	521
Total	33,160(d)	49,959

(a) Described for 1958 as 'Electric cables, wires, strips and strands, insulated cable jointing materials and accessories and overhead transmission line fittings'.

(b) Excluding parts and accessories of locomotives for 1958.

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

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

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

This table is not applicable to this industry.

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

This table is not applicable to this industry.

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
Iron				
Pig iron, including refined pig iron, and other irons for re-melting (a)	0.1	1	3.8	345
Castings	2.3 ..	209 163	..	125
Steel				
Ingots, blooms, billets, slabs, and sheet and tinplate bars	0.3	15	1.4 ..	98 13
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (b)	20.4	1,218	26.8	1,947
Plates, 3mm. thick and over	..	414	1.4	83
Hoop and strip (including tape of all thicknesses)	..	..	44.1	2,868
Sheets under 3mm. thick (including electrical sheets)	9.0 ..	509 977	31.5	2,116
Tinplate, terneplate and blackplate	1.1 ..	59 10	0.6	43
Forgings (except drop forgings) and castings	0.4	111	0.3 ..	63 20
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc.)	..	248	0.3	48
Other	..	..	3.0 ..	345 314
Steel wire and wire manufactures, including wire cables and ropes but excluding insulated wires and cables (c)	0.1 ..	16 12	0.6 ..	67 21
Springs, laminated and other types (d)	..	279	..	600
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	4.2 ..	1,032 356	4.5 ..	1,349 452
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	8.3 ..	2,316 1,778	18.2	4,958
Copper (excluding blister) (e)	6.2	1,760	7.3	2,193
Lead and alloys of lead (excluding solder)	56.5	5,999	79.5	5,542
Zinc and alloys of zinc	16.4	1,687	19.5	2,044
Solder, soft	..	143	..	301
Uninsulated wire and cables of non-ferrous metals (f)				
Copper	..	1,390	..	1,296
Other non-ferrous metals	..	205	..	1,526
Bitumen and bitumastic compound	..	247	..	377
Glass in all forms (including finished parts)	..	3,330	..	6,487
Insulating oils	..	3	..	5
Mica				
Block and splittings	..	112	..	32
Built-up (Micanite)	..	12	..	40

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing (continued)	Th.gal.	£'000	Th.gal.	£'000
Paint and varnish (including lacquers and stains)	261 ..	333 140	387 ..	534 228
Paper and paperboard, including pressboard and paper yarn, tubes, etc. (excluding packaging materials)	..	602	..	605
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)			Th.cwt.	
Polyethylene and polypropylene and co-polymers: granules, moulding and extrusion compounds			8.6 ..	161 23
Polyvinyl chloride (including co-polymers): resins, solutions, emulsions, dispersions, moulding and extrusion compounds			120	1,267
Polystyrene moulding and extrusion compounds			7.2 ..	93 28
Phenolics and cresylics	..	(g)		
Resins, solutions, emulsions, dispersions, moulding and extrusion compounds			147	1,221
Industrial laminates, cast sheet, laminated or cast rod, tube and profile shapes			9.5 ..	178 79
Thermosetting polyesters (including epoxide resins and resin glass fibre mixtures)			4.5 ..	56 94
Porcelain and other ceramics in all forms	..	331	..	1,378
Rubber, including hard rubber, balata, gutta-percha and synthetic rubber in all forms, including finished parts	..	2,598	..	3,296
Timber				
Softwood and hardwood, manufactured or semi-manufactured (i.e. further prepared than sawn or planed)	..	194	..	255
	Th.sq.ft.			
Plywood, including blockboard, laminboard and battenboard	109	5	..	66
Textiles (excluding packaging materials)				
Yarn, thread, tape and cloth, not oiled or otherwise coated or impregnated with insulating materials	Th.lb.		Th.lb.	
			280	85
Of cotton	998 ..	371 134	Th.sq.yds. 49.4 ..	4 20
			Th.lb.	
Of man-made fibres (rayon, nylon, etc.)	94.9 ..	40 13	529	265
			Th.sq.yds.	
Of silk	5.3 ..	4 19	204	151
Electrical insulating materials not elsewhere specified	..	93	..	1,009
Insulated wires, cables, strips and strands (f)	..	3,007	..	3,523
Purchased components for incorporation in firms' own products				
Ball and roller bearings and parts thereof	..	275	..	374
Batteries and accumulators	..	213	..	406
Fractional horse-power electric motors (i.e. less than one horse-power)	..	37	..	147
Internal combustion engines				

Continued on next page

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Materials for processing (continued)				
Purchased components for incorporation in firms' own products (continued)				
Loudspeakers and microphones	..	77	..	57
Magnets, permanent	..	223	..	171
Measuring and control instruments including ammeters, voltmeters, thermostats, etc.	..	84	..	249
			Thousands	
Semi-conductor devices	..	(g) {	939	104
			..	31
Electrical machinery not included above, e.g., generators, motors (other than fractional horse-power motors), converting machinery, static rectifiers, transformers for lighting, heating and power, starting control and switchgear, etc., and parts thereof	..	701	..	1,715
Other purchased electrical components, including parts and accessories (pick-ups, automatic record changers, etc.) for gramophones and radiograms, not elsewhere specified	..	1,108	..	5,721
Other finished parts not elsewhere specified				
Wholly or mainly of plastics materials	..	1,585	..	3,405
Other, except those of rubber and glass	..	6,661	..	12,286
	Th.gal.		Th.gal.	
			149	38
Lubricating oils and greases (including cutting oils and emulsions)	{ 172	{ 41	Th.cwt.	
	..	10	3.6	7
			..	25
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	1,651	..	3,364
All other materials for processing	..	15,956	..	14,322
Packaging materials				
Paper and board				
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard			..	2,212
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 (except multiwall sacks)	..	1,270	..	438
Timber				
Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates			..	547
Timber (sawn or planed) for manufacture into packing cases, etc.	..	538	..	42
Plywood for manufacture into packing cases				
Sheet, film, foams, etc. wholly or mainly of polyethylene (including bags and lay flat tubing)	..	476	..	40
All other packaging materials			..	741

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Fuel and electricity (h)	Th.tons		Th.tons	
Coal	95.9	386	26.1	146
			..	45
Coke (including screenings) and manufactured fuel	{ 17.6	{ 100	5.4	50
	..	30	..	11
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	1,067	215	1,404	298
			..	44
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied gases)	4,066	181	9,213	398
			..	261
	Th.therms		Th.therms	
Gas	{ 6,658	{ 373	7,607	496
	..	195	..	366
	Th.kWh		Th.kWh	
Electricity	{ 179,326	{ 923	226,062	1,220
	..	347	..	1,145
Total cost of materials and fuel		66,150		101,273
Goods purchased for merchanting		..		18,065
Canteen purchases		..		500
Total cost of purchases		..		119,838

(a) Described for 1954 as 'Pig iron except refined pig iron'.

(b) 'Pillars rolled (not fabricated) including tube rounds and squares' were not included for 1954.

(c) Main heading for 1954 covered 'Iron and steel'.

(d) Main heading for 1954 covered 'Steel' only.

(e) 'Blister' was not specifically excluded for 1954.

(f) Including 'Flexibles' for 1954.

(g) Not separately distinguished for 1954.

(h) The total quantity of electricity generated in firms' own establishments in this industry was 9,391 Th.kWh in 1954. Owing to the risk of disclosure of information relating to individual firms the quantity for 1963 cannot be given.

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.	1,271
Transport costs		
Wages and salaries	£'000	1,028
Derv fuel and motor spirit	"	342
Payments to other organisations for transport	"	2,034
Costs of operating road goods vehicles		
Insurance	"	69
Vehicle licences	"	61
Depreciation	"	389
Payments to other organisations for repairs and maintenance	"	196
Total	"	4,118

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	738
Road goods vehicles	196
Plant, machinery, and other capital equipment	1,063
Insurance, licensing and depreciation of road goods vehicles (b)	518
Rates, excluding water rates	1,345
Hire of plant and machinery	121
Postage, telephone, telegrams and cables	998
Total	4,981

(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)	4.5	November	—
May	0.9	December	26.1
June	3.0	1964	
July	27.0	January	0.4
August	2.7	February	6.6
September	1.5	March	25.9
October	1.4	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
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