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BOARD OF TRADE

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 61
MISCELLANEOUS ELECTRICAL GOODS

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

LONDON: HER MAJESTY'S STATIONERY OFFICE
1961

TWO SHILLINGS NET

NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years 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 offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to 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 were carried on at the same address as the works, unless

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

EMPLOYMENT

(i) 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 fixed wages or salaries; but persons working less than half the normal hours are excluded.

(ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

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 and, for 1958, 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 on materials

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchandising or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was 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 were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, 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 was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchandising and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

SALES

Sales include goods made by the business covered by the return, those 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 sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchandised or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

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. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchandising or factoring. 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, that is 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. 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. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

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.

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.

The Report on the Census of Production for 1958

Part 61. MISCELLANEOUS ELECTRICAL GOODS

This report on the Miscellaneous Electrical Goods Industry relates to establishments engaged in the manufacture of 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; the report includes time switches but electric clocks and time recorders are excluded.

The industry corresponds to minimum list heading 369 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds to Industries 4N (Batteries and Accumulators), 4O (Electric Lighting Accessories and Fittings) and to part of Industry 4K (Electrical Engineering (General)) in the reports on the last detailed Census of Production, for 1954; electric lamps and sparking plugs, now included in this industry, were formerly reported on respectively in Industries 4M (Radio and Telecommunications) and 3I (Motor Vehicles and Cycles (Manufacturing)). Electrical machinery, which formerly formed part of Industry 4K, is now the subject of a separate report (Part 56).

The items excluded from this report are classified and reported on as follows:- glassware for lighting fittings and glass envelopes for lamps to minimum list heading 463 (Glass Industry Report, Part 106); electric clocks and time recorders to minimum list heading 352 (Watches and Clocks Report, Part 55).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

This industry is defined in terms of its 'principal products' which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry accounted for a greater proportion of its output than the principal products of any other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. Sales of merchantable products and of non-specific items such as waste products, work done and canteen takings were not taken into account in classifying returns.

A similar procedure was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their 'characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the products which define the sub-divisions, other items of output assumed to be closely related to them, e.g. waste products and non-specific work done, but such items were not generally taken into account in determining the classification to sub-divisions.

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Industry summary: United Kingdom

TABLE 1
Estimates for all firms (a)

	Unit	1954	1958	
Number of enterprises	No.	..	735	
Number of establishments	"	..	862	
Sales	{ goods produced and work done	£'000	140,095	190,763
	{ merchantable goods and canteen takings	"	..	8,517
Purchases of materials and fuel (b)	"	69,903	98,983	
Products on hand for sale (b)	{ change during year	"	+ 675	+ 927
	{ at end of year	"	7,079	11,778
Work in progress	{ change during year	"	+ 1,012	- 12
	{ at end of year	"	8,244	11,239
Stocks of materials and fuel (b)	{ change during year	"	+ 1,073	+ 382
	{ at end of year	"	11,605	15,544
Payments for work done on materials given out	"	1,811	3,596	
Payments for transport	"	1,752	1,884	
Net output	"	69,389	96,114	
Average number employed (c)	{ operatives	Th.	69.1	79.6
	{ other employees	"	17.7	24.4
	{ total, including working proprietors	"	87.0	104.2
Wages and salaries	{ of operatives	£'000	26,783	39,563
	{ of other employees	"	10,044	17,188
Capital expenditure (d)				
New building work	"	790	2,349	
Plant and machinery	{ acquisitions	"	2,748	4,131
	{ disposals	"	237	159
Vehicles	{ acquisitions	"	390	677
	{ disposals	"	102	194

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 5 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions

TABLE 2

Firms employing 25 or more

	Unit	Sub-divisions of the industry (b)			
		Electrical equipment for motor vehicles, cycles and aircraft		Primary batteries	
		10		20	
		1954	1958	1954	1958
Number of enterprises (c)	No.	33	29	8	7
Number of establishments	"	50	49	21	24
Sales	£'000	50,500	62,835	11,929	14,777
Sales					
Sales of characteristic products	"	41,952	52,289	9,344	12,388
Purchases of materials and fuel (d)	"	24,917	35,058	6,316	7,991
Products on hand for sale (d)	"				
Products on hand for sale (d)					
Work in progress	"				
Stocks of materials and fuel (d)	"				
Payments for work done on materials given out	"	1,084	2,569	9	19
Payments for transport	"	497	193	374	383
Net output	"	25,259	29,164	5,531	7,988
Average number employed (e)	No.	23,000	24,542	7,374	6,781
Net output per person employed	£	894	930	616	902
Wages and salaries	£'000	10,136	13,725	2,296	2,906
Wages and salaries per head	£	441	559	311	429
Capital expenditure (f)	£'000				
New building work	"	163	286	30	31
Plant and machinery	"	987	1,262	224	369
Vehicles	"	76	124	47	68

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

	1958
Number of returns	480
Average number of persons employed including working proprietors	
Males	3,453
Females	1,538

(92794)

of the industry

persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)						Total	
		Secondary batteries (accumulators)		Electric lamps		Other electrical goods		1954	1958
		30		40		50			
		1954	1958	1954	1958	1954	1958		
		14	16	38	38	153	168	240	250
		23	21	60	70	187	195	341	359
Sales	£'000	19,442	20,816	18,612	27,653	32,253	54,662	132,737	180,743
Sales of characteristic products	"	18,532	19,756	14,432	20,822	23,983	38,904		
Purchases of materials and fuel (d)	"	11,457	12,518	8,573	11,954	14,968	26,263	66,231	93,784
Products on hand for sale (d)	"								
Work in progress	"								
Stocks of materials and fuel (d)	"								
Payments for work done on materials given out	"	6	12	87	66	529	740	1,716	3,407
Payments for transport	"	196	216	233	451	360	542	1,660	1,785
Net output	"	8,066	9,520	9,744	16,055	17,144	28,339	65,744	91,066
Average number employed (e)	No.	5,443	5,530	10,216	13,468	19,582	25,244	65,615	75,565
Net output per person employed	£	1,031	1,142	761	882	697	886	797	922
Wages and salaries	£'000	2,664	3,396	3,501	5,901	6,820	11,617	25,416	37,544
Wages and salaries per head	£	489	614	343	438	348	460	387	497
Capital expenditure (f)	£'000	82	138	29	382	346	879	651	1,716
New building work	"	203	268	540	671	643	865	2,598	3,436
Plant and machinery	"	14	6	31	22	38	50	225	151
Vehicles	"	44	57	41	102	161	287	369	638

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.

(c) 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.

(d) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(e) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

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

(92794)

Analysis by size of enterprise within the industry, 1958

TABLE 3 Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in this industry (a)	Enterprises	Establishments	Total sales (b)	Net output	Employees		Wages and salaries		Capital expenditure (c)	Net output per person employed (a)
					Operatives	Others	Operatives	Others		
	Number	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
25 - 49	65	68	4,260	2,066	1,882	494	881	377	82	868
50 - 99	74	81	10,037	4,528	4,080	1,070	1,703	777	337	878
100 - 199	50	56	12,757	6,443	5,568	1,613	2,455	1,134	442	897
200 - 299	13	18	5,152	2,758	2,218	930	958	705	306	876
300 - 399	11	15	6,233	3,296	2,951	924	1,341	617	211	851
400 - 499	8	12	9,191	4,852	2,526	900	1,230	676	294	1,416
500 - 749	8	15	7,728	4,217	3,410	1,487	1,553	1,021	183	861
750 - 999	4	6	5,673	2,961	2,945	693	1,273	511	185	814
1,000 - 1,499	4	6	10,568	6,263	3,430	1,187	1,640	827	355	1,356
1,500 - 1,999	3	7	8,481	4,539	4,458	1,081	2,116	709	369	819
2,000 - 2,999	3	8	8,867	4,361	5,196	1,607	2,162	1,017	187	641
3,000 - 4,999	4	28	34,769	16,073	12,832	3,596	6,602	2,373	982	978
5,000 and over	3	39	65,098	28,709	24,069	7,566	13,629	5,568	1,857	907
Total	250	359	188,813	91,066	75,565	23,148	37,544	16,310	5,790	922

(a) Including working proprietors.

(b) Value of sales of goods (including merchant goods), work done, and canteen takings.

(c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

TABLE 4 Firms employing 25 or more persons: United Kingdom

Industry sub-division (a)	1954		1958		Enterprises	Entries
	Quantity	Value	Quantity	Value		
	Th.	£'000	Th.	£'000	Number	Number
Electrical equipment for motor vehicles, cycles and aircraft and for other internal combustion engines (excluding accumulators and bulbs)						
10 Coils, ignition	..	783				
10 Dynamo lighting sets for cycles and dynamos therefor	1,452	1,361	..	1,335	9	11
Magnetos, ignition						
10 For motor vehicles, motor cycles and three-wheelers	..	1,250	372	1,017	6	6
10 Other	..	1,004	93.3	532	..	..
10 Measuring instruments, indicating, for motor vehicles, complete	..	63	394	100	..	..
10 Sparking plugs other than for aircraft	40,975	3,506	37,066	3,226	7	7
Other electrical equipment (including lamps, complete, with or without bulbs, and horns)			..	570		
10 For motor vehicles, cycles and three-wheelers (including lighting and starting sets for motor vehicles, but excluding accumulators)	..	35,106	..	43,328	48	54
10 For aircraft	..	9,321	..	16,175	34	39
Batteries and accumulators						
Primary batteries and cells						
20 Complete	Th. cells 875,632	9,009	Th. cells ..	1,088,077	10	11
20 Parts, other than carbons	..	654	..	599	..	..
Accumulators						
Complete						
Portable						
30 For motor vehicle starting, lighting and ignition	Th. batteries ..	11,929	Th. batteries 3,784	13,223	15	16
30 For traction	Th. cells 321	2,165	Th. cells 372	2,653	7	9
30 For radio	Th. batteries 247	159	Th. batteries ..	228	7	7
30 Other portable	Th. cells 1,785	2,867	Th. cells 1,398	3,060	10	10
30 Stationary	389	2,231	383	1,631	7	10
30 Parts and accessories	..	3,030	..	3,420	12	15

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.	£'000	Th.	£'000	Number	Number
Electric lamps						
Electric lamps, filament type, complete, ready for use						
Not over 28 volts (b)						
40 Motor vehicle types	59,088	2,069	53,713	1,987	15	15
40 Flash lamps (excluding photoflash bulbs) radio panel and cycle dynamo lamps	65,821	1,240	33,437	451	11	11
40 Other lamps not over 28 volts			18,230	566	13	14
40 Over 28 volts (c)	171,805	8,640	185,689	10,396	20	23
Discharge lamps, luminous tubes, fluorescent tubes and tube signs						
Complete						
40 Advertising types i.e. high tension cold cathode tubes over 300 volts	..	483	..	1,333	13	14
Other types						
40 Other fluorescent tubular lamps	8,770	2,020	10,558	2,444	11	12
Other discharge lamps, etc., not over 300 volts						
40 Not over 5 watts	535	144	..	119	5	5
40 Over 5 watts	621	930	936	1,466	6	6
40 Parts other than glass envelopes	..	1,546	..	1,760	6	9
Electric lighting fittings and accessories						
Fittings (ceiling, wall, standard, portable or pendant) excluding glassware sold separately						
50 Auxiliary gear for discharge lighting	..	2,769	..	3,650	16	18
Other fittings, not elsewhere specified						
50 Domestic, decorative and commercial	..	3,699	..	4,321	66	68
50 Industrial, including flood-lighting and shop window lighting	..	5,566	..	8,012	57	62
50 Street lighting	..	1,362	..	2,408	25	26
Wiring accessories, up to 250 volts, 30 amps (e.g. lampholders, ceiling roses, wall plugs and sockets, switches) not elsewhere specified						
50 Mainly of brass	..	1,240	..	2,475	18	19
50 Mainly of plastics materials	..	8,589	..	9,284	56	60
50 Other (porcelain, etc.)	..	2,904	..	3,069	24	24
50 Unclassified	..	475	..	2,722	14	14
50 House wiring kits, complete	..	238	..	..	..	..
50 Electric bell apparatus, not telegraphic or telephonic	..	445	..	979	11	13

(92794)

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.	£'000	Th.	£'000	Number	Number
Other electrical goods						
Flashlight cases of all types and descriptions (exclusive of bulbs and batteries)						
Complete						
50 Adapted for use on cycles	4,771	410	..	688	6	7
50 Other	4,189	514				
50 Joint boxes	..	2,257	..	3,022	16	17
50 Arc lamps, electric searchlights and projection lamps, including parts (except bulbs sold separately)	..	380	..	563	9	9
Other lamps (except motor vehicle lamps)						
40 Complete, with or without bulbs	..	970	..	960	8	8
40 Parts, except bulbs	..	1,058				
50 Permanent hair-waving apparatus (including hood driers)	..	224	..	308	5	5
50 Time switches and process timers	..	1,674	..	3,475	24	27
50 Other electrical goods, including photoflash lamps for photographic and other purposes, and parts of flashlight cases	..	6,871	..	13,648	140	148
50 Government contracts not further defined	..	1,428				
Other products	..	678	..	762	32	34
Scrap metals sold						
Iron and steel	..	33	..	70	64	67
Copper	..	76	..	155	57	58
Brass	..	1,443	..	1,280	79	81
Other metals	..	701	..	322	66	70
Other waste products sold	..	94	..	165	27	29
Work done						
Machinery purchased and installed and other installation work		52		238	5	5
Repair and maintenance on customers machinery, plant, apparatus and appliances						
Radio (including television and all electronic apparatus)		263				
Telegraph and telephone		-		1,959	37	37
Other		384				
Research and development work for customers (including Government Departments)		929		964	17	18
Other work done on commission		156		217	19	19
Total		149,704		189,413	..	..
Sales in other industries (see Table 5)		32,433		33,760	..	..
Principal products of this industry sold by establishments in the industry		117,271		155,653	250	276(d)

(92794)

For footnotes to the table, see page 61/11

Sales of principal products of the industry by establishments
classified to other industries

TABLE 5

Firms employing 25 or more persons: United Kingdom

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Electrical equipment for motor vehicles, cycles and aircraft						
For aircraft	..	4,277	..	6,106	25	56, 59, 60, 65
Other	..	7,160	..	9,232	40	53, 56, 59, 63
Batteries and accumulators	..	802	..	437	5	54, 56, 58
Electric lamps, filament type, complete, ready for use, photoflash lamps for photographic and other purposes, discharge lamps, luminous tubes, fluorescent tubes and tube signs	..	2,878	..	758	7	56, 59, 75, 128
Electric lighting fittings and accessories						
Fittings (ceiling, wall, standard, portable or pendant) excluding glassware sold separately						
Auxiliary gear for discharge lighting	..	1,695	..	1,084	7	56, 59, 60
Other fittings, not elsewhere specified						
Domestic, decorative and commercial	..	499	..	667	13	56, 60, 75, 113
Industrial, including flood-lighting and shop window lighting	..	2,099	..	1,466	20	39, 56, 60, 66
Street lighting	219	5	40, 66, 75
Wiring accessories, up to 250 volts, 30 amps (e.g. lampholders, ceiling roses, wall plugs and sockets, switches) not elsewhere specified						
Mainly of brass	..	190	..	774	8	56, 57, 59, 60
Mainly of plastics materials	..	2,469	..	3,023	39	56, 59, 60, 126
Other (porcelain, etc.)	..	1,376	..	697	11	39, 57, 66
Unclassified	..	471	..	387	8	54, 60, 66, 121
Electric bell apparatus, not telegraphic or telephonic	..	63	..			
Other electrical goods						
Joint boxes	..	2,222	..	2,600	10	56, 57, 59
Time switches and process timers	..	517	..	391	15	55, 56
Other, including flashlight cases (exclusive of bulbs and batteries), arc lamps, electric searchlights and projection lamps, including parts (except bulbs sold separately), permanent hair-waving apparatus (including hood driers), and parts of electric lamps other than glass envelopes	..	5,712	..	5,918	80	
Total		32,433		33,760	..	

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

Sales of other than principal products by larger firms in the industry

TABLE 6

Firms employing 25 or more persons: United Kingdom

	1954		1958	
	Quantity	Value	Quantity	Value
		£'000		£'000
Non-ferrous metal manufactures	..	423	..	216
Miscellaneous non-electrical machinery and parts	..	196	..	510
Other mechanical engineering products	..	554	..	1,885
Scientific, surgical and photographic instruments, etc.	..	494	..	1,643
Electrical machinery				
Switchgear and switchboards (other than telegraph and telephone)	..	113	..	555
Fuses and fuse gear, complete and parts	..	197	..	281
Other electrical machinery	..	1,086	..	2,102
Telegraph and telephone apparatus	..	159	..	395
Radio and other electronic apparatus	..	3,427	..	3,639
Domestic electrical appliances	..	1,076	..	4,387
Parts and accessories of motor vehicles, motor cycles, three-wheeled vehicles, pedal cycles and aircraft	..	2,779	..	1,727
Miscellaneous metal manufactures	..	292	..	375
Abrasives, insulation materials and carbon and graphite products	..	87	..	189
Goods wholly or mainly of plastics materials	..	144	..	832
Clock and parts therefor	333
Electric cables, wires, strips and strands, insulated cable jointing materials and accessories and overhead transmission line fittings	..	4,226	..	3,620
Other products	1,723
Building work done as main or sub-contractors		75		179
Other work done including repairs		137		498
Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)	7,626
Canteen takings				444
Total				33,160

Footnotes to Table 4

- (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) The 1954 figures given relate to lamps not over 24 volts.
- (c) The 1954 figures given relate to lamps over 24 volts.
- (d) 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 7 - Total make of intermediate products, 1958

This table is not applicable to the industry.

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

	Males	Females	Total
	Number	Number	Number
Working proprietors	10	2	12
Operatives	38,538	36,633	75,171
Administrative, technical and clerical employees	14,675	8,975	23,650
Total employees	53,213	45,608	98,821
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 16.4	£ 7.4	£ 13.0

LIST OF INDUSTRY REPORTS, ETC.

Part

- 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 Food Industries
- 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 Coal-tar Products
- 28 Chemicals (General)
- 29 Pharmaceutical Preparations
- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishes
- 37 Gelatine, Adhesives, etc.
- 38 Iron and Steel (General)
- 39 Steel Tubes
- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
- 42 Agricultural Machinery (except Tractors)
- 43 Metal-working Machine Tools
- 44 Engineers' Small Tools and Gauges
- 45 Industrial Engines
- 46 Textile Machinery and Accessories
- 47 Contractors' Plant and Quarrying Machinery
- 48 Mechanical Handling Equipment
- 49 Office Machinery
- 50 Miscellaneous (Non-electrical) Machinery
- 51 Industrial Plant and Steelwork
- 52 Ordnance and Small Arms
- 53 General Mechanical Engineering
- 54 Scientific, Surgical and Photographic Instruments, etc.
- 55 Watches and Clocks
- 56 Electrical Machinery
- 57 Insulated Wires and Cables
- 58 Telegraph and Telephone Apparatus
- 59 Radio and Other Electronic Apparatus
- 60 Domestic Electrical Appliances
- 61 Miscellaneous Electrical Goods
- 62 Shipbuilding and Marine Engineering
- 63 Motor Vehicle Manufacturing
- 64 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 65 Aircraft Manufacturing and Repairing
- 66 Locomotives and Railway Track Equipment
- 67 Railway Carriages and Wagons and Trams
- 68 Perambulators, Hand-trucks, etc.
- 69 Tools and Implements

Part

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

CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-ferrous metals; paint; plastics materials; cotton and rayon, nylon, etc. textiles; timber; packing materials; replacement parts for plant etc. (Information about purchases of other materials is given in The Report on the Census of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

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