



BOARD OF TRADE

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[HA 251]

Report on the Census of Production 1963

53 Scientific, surgical and
photographic instruments, etc

LONDON: HER MAJESTY'S STATIONERY OFFICE
FOUR SHILLINGS NET

BOARD OF TRADE

Report on the Census of Production 1963

53 Scientific, surgical and photographic instruments, etc

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.

53 Scientific, surgical and photographic instruments, etc

This Report on the Scientific, Surgical and Photographic Instruments, etc. Industry relates to establishments engaged wholly or mainly in manufacturing photographic equipment including cameras, projectors, photographic accessories, photographic films and plates, sensitised paper, etc.; optical instruments including binoculars, telescopes, microscopes, ophthalmoscopes and the grinding of lenses; spectacles, monacles, goggles, etc., including frames; surgical cutlery, dental instruments, splints, trusses, artificial eyes, artificial teeth and artificial limbs, and other surgical and dental appliances, including electro-medical equipment (other than X-ray apparatus); and all other types of scientific instruments and equipment, excluding electronic instruments and engineers' gauges.

This industry corresponds to minimum list heading 351 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 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)			
		Photographic and cinematographic apparatus and appliances 11		Sensitised photographic plates and films and photographic paper and cloth 12	
		1958	1963	1958	1963
Number of enterprises (c)	No.	16	19	10	10
Number of establishments	"	19	22	28	22
Gross output	£'000	6,206	11,018	35,877	52,999
Net output	"	3,640	4,678	18,301	26,330
Net output per head	£	1,085	1,410	1,480	1,566
Sales and work done	£'000	5,806	8,572(d)	32,739	48,233(d)
	"	428	1,833	2,989	4,734
Sales of characteristic products (e)	"	5,010	8,267	29,541	42,282
Index of specialisation (f)	Per cent.	86	96	90	88
Purchases	£'000	2,277	4,589	17,022	22,866
	"		1,292		3,740
Payments to other organisations	"	268	224	76	518
	"	60	50	149	100
Stocks and work in progress					
Goods on hand for sale	"	+ 87	+ 318	+ 221	- 285
	"	711	1,168	1,604	2,831
Work in progress	"	- 115	+ 296	- 72	+ 317
	"	753	1,319	1,911	3,918
Materials, stores and fuel	"	+ 40	- 184	- 329	+ 556
	"	434	1,024	4,533	6,822
Average number employed	No.	3,356	3,317	12,362	16,811
	"	2,386	2,426	7,702	10,218
	"	970	890	4,660	6,589
Wages and salaries	£'000	1,076	1,474	4,860	8,052
	"	812	839	3,447	6,413
Wages and salaries per head	£	451	608	631	788
	"	838	943	740	973
Employers' contributions to National Insurance (h)	£'000	..	89	..	466
Employers' contributions to private pension schemes, etc. (i)	"	..	46	..	552
Capital expenditure (j)					
New building work	"	23	286	1,405	623
Land and existing buildings	"	..	+ 21	..	178
	"	..		..	75
Plant and machinery	"	132	129	1,863	2,010
	"	1	3	10	21
Vehicles	"	18	18	122	240
	"	5	10	40	87

For notes to this table - see page 53/7

	Sub-divisions of the industry (b)								Total	
	Optical instruments 20		Spectacles, etc. 30		Surgical, dental and veterinary instruments and appliances 40		Other scientific instruments and equipment 50			
	1958	1963	1958	1963	1958	1963	1958	1963		
	24	27	78	70	86	84	175	171	384	367
	36	43	117	118	106	110	246	253	552	568
	7,377	15,079	13,770	16,859	13,675	19,542	83,629	128,228	160,534	243,725
	5,090	10,531	7,948	8,470	8,549	12,638	52,563	77,837	96,092	140,485
	913	1,123	823	912	825	1,112	967	1,263	1,005	1,257
	6,810	13,978(d)	11,541	13,585(d)	12,906	18,032(d)	78,672	111,130(d)	148,473	213,529(d)
	414	899	2,185	3,232	653	1,390	3,408	14,311	10,077	28,398
	5,664	10,922	11,140	12,949	11,785	15,438	66,858	95,217	(e)	(e)
	83	78	97	95	91	86	85	86	91	89
	2,140	3,628	5,727	5,567	4,862	5,598	28,705	36,403	60,733	78,651
		721		2,820		1,133		10,756		20,462
	140	226	37	41	147	209	1,788	3,428	2,455	4,648
	37	46	59	27	145	75	533	524	982	823
	+ 126	+ 216	+ 38	- 11	+ 51	+ 65	+ 411	+ 411	+ 935	+ 715
	721	1,580	1,086	1,347	557	930	3,526	6,548	8,205	14,404
	+ 27	- 14	+ 6	+ 53	+ 65	+ 56	+ 1,138	+ 2,376	+ 1,049	+ 3,082
	1,467	4,593	358	516	1,117	2,010	13,871	20,975	19,476	33,331
	+ 30	+ 73	+ 1	+ 67	+ 27	+ 111	- 40	+ 721	- 270	+ 1,343
	461	1,569	1,251	1,264	1,513	1,876	9,014	15,443	17,205	27,998
	5,574	9,375	9,657	9,287	10,368	11,365	54,330	61,649	95,647	111,804
	4,053	6,375	8,144	7,784	8,119	8,800	36,030	39,675	66,434	75,278
	1,521	2,989	1,508	1,456	2,248	2,516	18,293	21,820	29,200	36,260
	2,008	3,866	3,532	4,142	3,845	5,220	18,785	25,573	34,106	48,327
	1,230	3,019	1,167	1,246	1,543	2,158	12,577	20,258	20,777	33,932
	495	606	434	532	474	593	521	645	513	642
	809	1,010	774	855	686	858	688	928	712	936
	..	273	..	246	..	297	..	1,722	..	3,092
	..	194	..	100	..	178	..	1,048	..	2,117
	41	163	12	55	222	82	1,166	1,655	2,869	2,865
	..	6	..	..	..	48	..	325	..	607
	..	-	..	- 60	..	20	..	562	..	747
	123	453	132	223	228	347	1,513	3,306	3,991	6,469
	7	26	7	23	9	9	52	244	87	326
	17	29	76	89	74	139	403	465	711	980
	6	7	37	36	38	74	147	200	273	415

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

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enterprises	Establishments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expenditure (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£'000	£'000	£	£'000	£'000
25-49	113	126	4,144	8,243	4,638	1,119	168	1,314
50-99	94	107	6,729	13,432	7,602	1,130	418	3,085
100-199	64	87	9,100	17,286	10,657	1,171	381	4,390
200-299	35	55	8,391	17,261	10,837	1,292	713	4,956
300-399	14	23	4,934	8,094	5,190	1,052	270	2,807
400-499	3	3	1,443	2,771	1,607	1,113	64	749
500-749	11	30	6,964	16,968	8,686	1,247	387	4,210
750-999	7	24	6,222	12,214	6,866	1,103	574	4,271
1,000-1,499	12	47	14,447	29,200	15,412	1,067	836	10,460
1,500-1,999	3	11	4,934	8,435	5,752	1,166	326	3,342
2,000-2,499	3	6	6,499	13,481	8,790	1,353	558	4,522
2,500-2,999	3	18	7,827	17,869	9,207	1,176	1,146	6,784
3,000 and over	5	31	30,170	78,471	45,240	1,499	3,592	24,845
Total	367	568	111,804	243,725	140,485	1,257	9,433	75,734

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

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Employees		Wages and salaries		Employers' contributions		Wages and salaries per head	
	Operatives	Others (c)	Operatives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Operatives	Others (c)
	Number	Number	£'000	£'000	£'000	£'000	£	£
25-49	3,180	875	1,846	771	113	30	581	881
50-99	5,028	1,644	2,809	1,513	183	95	559	920
100-199	6,804	2,267	3,990	1,992	244	119	586	879
200-299	6,186	2,190	3,787	2,047	231	110	612	935
300-399	3,563	1,369	2,167	1,126	137	64	608	822
400-499	1,105	338	955	367	60	29	864	1,087
500-749	4,883	2,079	2,957	1,849	201	132	606	889
750-999	3,961	2,190	2,731	1,879	169	89	689	858
1,000-1,499	10,422	4,024	6,314	3,448	385	224	606	857
1,500-1,999	3,220	1,714	1,857	1,586	142	52	577	925
2,000-2,499	4,216	2,283	2,622	2,066	194	147	622	905
2,500-2,999	4,879	2,948	3,377	2,660	238	216	692	902
3,000 and over	17,831	12,339	12,917	12,629	794	811	724	1,024
Total	75,278	36,260	48,327	33,932	3,092	2,117	642	936

(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 £208,000.

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	4	3	7
18 and over	62	31	93
All ages	66	34	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 3 per cent. of the employment shown for 1963. For 1958 the comparable figure was also 3 per cent.

	1958	1963
Number of firms	962	1,107
Average number employed:		
Working proprietors	8,538	1,563
Other persons employed		7,930

(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) 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) 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).

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

(f) 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.

(g) Administrative, technical and clerical employees.

(h) Including both flat rate and graduated contributions.

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

(j) 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
		£'000		£'000	Number	Number
30	Ophthalmic instruments and appliances and parts thereof (excluding ophthalmic prescription and repair work)					
	Sunglasses and parts of spectacles, pince-nez, eyeglasses and monocles					
		2,978	..	3,686	45	48
		299	..			
	Thousands	3,053	Thousands	3,138	23	29
	28,415		27,259	459		
			..			
		356	..	339	11	11
			..	253	9	9
		6,886		7,873	..	..
20	Other optical instruments and appliances and parts thereof					
	Finished lenses and other optical elements, optically worked, mounted or unmounted, sold separately					
		1,136	..	1,006	13	13
		392	..	907	22	24
		840(b)	..	1,961	17	17
		574(c)	..	450	12	13
		728	..	1,116	5	6
		1,322	..	1,082	15	16
		474	..	22	5	5
		1,980	..	4,664	34	35
		7,448		11,208	..	..
40	Dental instruments, appliances and equipment					
		760	36,570	581	10	10
	54,718		..	99		
		2,306	..	2,842	21	23

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
40	Medical, surgical, veterinary and dissecting instruments, appliances and equipment (other than optical, ophthalmic and dressings)					
		1,659	..	3,962	44	50
	Th.doz.		Th.doz.			
	134	1,001	186	1,613	17	18
	..	303	..			
		772	..	1,220	5	6
	Thousands		Thousands			
	97.2	1,250	28.0	882	10	10
	..	143	..	120		
		2,040(f)	..	1,737	24	26
		906	..	1,265	23	23
		769	..	694	23	23
		1,155(g)	..	590	24	26
		658	..	2,346	18	21
		13,721		17,950	..	..
	Photographic and cinematographic apparatus and appliances					
11	Cameras, complete					
		718	..	684	6	6
		99	59.7	449	8	8
	0.7	330	..			
		997	..	951	*	*
11	Projectors, complete					
	Cinematograph projectors (excluding sound reproducing apparatus sold separately)					
	0.6	202	..	1,169	5	6
	10.9	245	16.3	262	5	5
			..	173		
	87.2	846	87.2	938	8	8

Continued on next page

TABLE 5 (continued)

Industry sub-division (a)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
11	Photographic and cinematographic apparatus and appliances (continued)						
	Other photographic and cinematographic apparatus and accessories (except lenses and photographic chemicals)						
	Cinematographic	6,868(h)	..	1,187	13	15	
	Other than cinematographic						
	Developing, printing and enlarging apparatus	1,015	..	2,191	13	14	
	Other	1,438	..	4,778	21	23	
12	Photographic paper and cloth						
	Paper sensitised with silver salts						
	Document-copying paper	949	Th. sq. ft. 119,092	1,862	5	5	
	Other paper sensitised with silver salts		..	611			
	Other sensitised paper (including dye-line) and sensitised cloth	21,221(i)	186,089	4,124	*	*	
			1,049,275	7,112	793	11	11
12	Sensitised photographic plates and films other than photographic paper and cloth						
			..	24,225	5	5	
	Total photographic equipment						
		35,937		51,509	..	..
50	Scientific, industrial, etc. instruments and apparatus not elsewhere specified						
	Aeronautical electrical instruments						
		5,888	..	13,944	20	23	
	Electrical measuring instruments (excluding supply meters and instruments for motor vehicles and aircraft)						
		6,721	..	9,920	50	56	
	Thermometers						
	Clinical	2,901	303	2,503	*	*	
	Other liquid in glass	1,945	540	2,567			833	9	10
	Other kinds including vapour pressure and mercury in steel	..	1,019	..	19	19	
	Laboratory instruments and apparatus (excluding precision balances)	..	1,499	..	35	39	
	Barometers, hygrometers and similar instruments (excluding thermometers) and barographs, hygrographs, thermographs, sunshine recorders, rain gauges, anemometers, etc.						
		..	452	..	15	15	
	Precision balances for use in assay, laboratory and similar work	8.2	484	15.8	9	10	
	Thermostats (including automatic control apparatus for refrigerating and heating)	..	68	..	..	..
		8,318	5,228	11,477	7,338	30	33
		..	555	..	1,477

TABLE 5 (continued)

Industry sub-division (a)	1958		1963				
	Quantity	Value	Quantity	Value	Enter-prises	Entries	
		£'000		£'000	Number	Number	
50	Scientific, industrial, etc. instruments and apparatus not elsewhere specified (continued)						
	Industrial process measuring and control instruments (excluding electronic) (j)						
	Pyrometers and temperature gauges, recorders and controls, other than thermostats						
		3,818	..	2,180	20	20	
	Other process measuring and control instruments; indicating, regulating, recording and controlling (excluding vapour pressure and mercury in steel thermometers, computers and water supply meters)						
		20,227	..	31,977	62	68	
	Water supply meters						
	Complete	148	1,039	279	2,106	10	11
		..	588	..	48	*	*
	Parts	..	(k)
	Mathematical and precision drawing instruments and machines and parts thereof						
		687	..	2,035	18	18	
	Surveying instruments and apparatus (other than optical and electronic)						
		956	..	486	7	7	
	Gunnery control apparatus (other than optical)						
		1,879	..	1,116	11	11	
	Nautical instruments not elsewhere specified (other than optical instruments)						
	Echo sounders	1.0	788	1.5	1,401	5	5
		1,766
	Other	..	3,547	..	3,879	20	21
	Aeronautical instruments not elsewhere specified (other than optical and electrical instruments)						
		..	4,389	..	3,015	19	23
	Oxygen breathing apparatus						
		..	1,907	..	1,256	10	10
	Engineers' measuring instruments and machines (other than electrical measuring instruments, optical instruments and engineers' gauges)						
		..	(l)	17.0	1,911	46	49
		1,978
	Scientific instruments and apparatus and parts thereof, not elsewhere specified						
		6,547	..	3,526	63	65	
	Total other scientific, industrial, etc. instruments and apparatus						
		69,128		100,696	..	..
	Other products						
		4,775	..	1,558	45	48	
	Waste products						
		707	..	911	88	98	
	Work done						
	Research and development work done for customers including Government Departments						
		4,225	..	5,072	48	53	

Continued on next page

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
Work done (continued)						
30 Ophthalmic prescription and repair work	..	4,780(m)	..	5,832	59	70
40 Repair work on surgical instruments	..	102	..	145	20	21
Other work done on commission, sub-contract work, etc.	..	2,898	..	5,765	51	54
Total		150,188(n)		208,520	..	..
Sales in other industries (see Table 6)		14,940		18,353	..	..
Principal products of this industry sold by establishments in the industry		135,247(n)		190,167	367	437(o)

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

(b) Excluding parts of microscopes for 1958.

(c) Including parts of microscopes for 1958.

(d) Described as 'Engineers' gauges and measuring instruments, optical' for 1958.

(e) Burrs were not specifically included for 1958.

(f) Including surgical boots for 1958.

(g) Including electronic medical and surgical measuring and testing instruments for 1958.

(h) Including cinematograph film, blank (raw film or stock) for 1958.

(i) Excluding cinematograph film, blank (raw film or stock) for 1958.

(j) Including electronic instruments for 1958.

(k) Not recorded separately.

(l) Sales of micrometers, dial indicators and other engineers' measuring instruments and machines amounted to £571,000 in 1958 and were included in the report on the Engineers' Small Tools and Gauges Industry, Part 44.

(m) Including spectacles, pince-nez, eyeglasses and monocles, complete with lenses, sold other than on prescription.

(n) Revised figure. Repair work for customers, other than ophthalmic repair work and repair work on surgical instruments, included in this table in the 1958 report on this industry, is now shown in Table 7 of this report.

(o) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

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

Firms employing 25 or more persons: United Kingdom

	1958	1963		
	Value	Value	Entries	Principal industries in which produced(a)
	£'000	£'000	Number	
Ophthalmic instruments and appliances and parts thereof	250	157	*	98,124
Other optical instruments and appliances and parts thereof	540	214	12	49,51,52,112
Dental instruments, appliances and equipment	31	-	-	
Medical, surgical, veterinary and dissecting instruments, appliances and equipment (other than optical, ophthalmic and dressings)				
Medical, surgical, veterinary and dissecting instruments	134	364	9	28,49,69,74
Surgical hosiery; artificial limbs; hearing aids with valve or transistor amplification; and other appliances, including trusses and artificial eyes, but excluding surgical boots	628	720	12	57,58,84,109
Aseptic hospital furniture	439	329	15	74
Sterilising equipment including autoclaves		389	11	49,60,74,126
Other equipment including anaesthetic and resuscitation apparatus and electro-medical equipment but excluding electronic medical and surgical measuring and testing instruments and X-ray apparatus and oxygen breathing apparatus	1,170	1,522	15	50,58,59,65
Photographic and cinematographic apparatus and appliances				
Projectors, complete; cinematographic apparatus and accessories (except lenses and photographic chemicals)	165(b)	170	*	52,58
Other photographic apparatus and accessories, other than cinematographic	660	507	8	54,59,60,114
Sensitised photographic plates and films other than photographic paper and cloth	-			
Scientific, industrial, etc. instruments and apparatus not elsewhere specified				
Aeronautical electrical instruments	-			
Electrical measuring instruments (excluding supply meters and instruments for motor vehicles and aircraft)	1,876	4,780	22	55,58,60,64
Thermometers	120(c)	230	*	52,104
Laboratory instruments and apparatus (excluding precision balances)	41	225	*	49,58,104

Continued on next page

TABLE 6 (continued)

	1958		1963	
	Value	Value	Entries	Principal industries in which produced(a)
	£'000	£'000	Number	
Scientific, industrial, etc. instruments and apparatus not elsewhere specified (continued)				
Barometers, hygrometers and similar instruments (excluding thermometers) and barographs, hygrographs, thermographs, sunshine recorders, rain gauges, anemometers, etc., and precision balances for use in assay, laboratory and similar work	163	1,136	13	40,55,58,59
Thermostats (including automatic control apparatus for refrigerating and heating)	1,695			
Industrial process measuring and control instruments (excluding electronic)	3,220	1,406	15	49,50,58,60
Water supply meters	165	87	*	49
Mathematical and precision drawing instruments and machines and parts thereof	-	86	*	49,74,124
Oxygen breathing apparatus and aeronautical instruments, not elsewhere specified (other than optical and electrical instruments)	1,368	1,061	5	49,52,60
Engineers' measuring instruments and machines (other than electrical measuring instruments)	(d)	1,573	37	42,43,49,62
Gunnery control apparatus and nautical instruments, not elsewhere specified (other than optical), and other scientific instruments and apparatus and parts thereof, not elsewhere specified	2,275	3,396	31	55,56,58,60
Total	14,940	18,353	..	

- (a) The references given are to the list of industries at the back of this report.
 (b) Described as 'Cameras and projectors, complete; cinematographic apparatus and accessories, including cinematograph film, blank (raw film or stock)' for 1958.
 (c) Excluding clinical thermometers for 1958.
 (d) Sales of engineers' measuring instruments and machines were included in the 1958 report on the Engineers' Small Tools and Gauges Industry, Part 44.

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	Value	Value
	£'000	£'000	£'000	£'000
Photographic developers and other compounded preparations for photographic purposes	(a)		1,933	
Miscellaneous chemical products and pharmaceutical preparations	535			
Engineers' small tools and gauges	646		377	
Office machinery; printers' accessories; pumps and valves; scales and weighing machinery; portable power tools and other machinery and appliances, complete and parts	556		983	
Industrial plant and steel work, pressure gauges and other and unclassified mechanical engineering products	855(b)		1,095	
Electrical machinery, complete and parts	519		796	
Insulated wire and cables; telegraph and telephone equipment and signalling apparatus			2,248	
Radar and electronic navigation aid equipment; X-ray apparatus and electronic measuring and testing instruments	3,992		2,712	
Electronic data processing and industrial process control equipment			915	
Sound reproducing and recording apparatus and other electronic equipment including resistors, transformers and other components			1,301	
Nucleonic instruments	334		242	
Domestic electric appliances and other electrical goods	389		2,026	
Motor vehicle, cycle and aircraft parts and accessories; guided weapons and missiles and launchers; and invalid chairs	-		1,406	
Metal furniture and other miscellaneous metal goods	82		81	
Industrial helmets and leather footwear	-		207	
Sanitary ware, scientific glassware and other manufactures of glass	197(c)		359	
Printing and writing papers; industrial and special paper and board	(a)		290	
Rubber and plastic goods	205(d)		1,034	
Other products	285		638	
Repair work for customers, other than ophthalmic repair work and repair work on surgical instruments (e)	4,630(f)		4,276	
Services rendered to other organisations (g)	..		442	
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	9,487		25,427	
Canteen takings	590		972	
Total	23,302(h)		49,760	

- (a) Included with 'Other products' for 1958.
 (b) Including ordnance and small arms for 1958.
 (c) Described as 'Scientific glassware' for 1958.
 (d) Excluding rubber goods for 1958.
 (e) Repair work for customers was included in the principal products table in the 1958 report on this industry.
 (f) Including other work done for 1958.
 (g) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.
 (h) Revised figure. 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
Steel bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (a)	2.4	180	9.9	987
	..	100	..	451
Iron and steel not elsewhere specified except finished parts, wire and scrap (b)	15.2	784	11.7	726
	..	459	..	333
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap (b)				
Aluminium and aluminium alloys	1.3	544	4.1	2,028
	..	838		
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys)	4.4	1,585	6.4	2,238
	..	455	..	529
Silver and manufactures of silver (c)			..	2,184
Heavy chemicals (acids, alkalis, alcohols, other inorganic (including silver nitrate) and organic chemicals, compressed gases, etc.)	..	2,219	..	4,063
Synthetic resins and plastics materials (excluding film base, leathercloth and reinforced plastics)	Th.cwt.		Th.cwt.	
Phenolics and cresylics: resins, solutions, emulsions, dispersions, moulding and extrusion compounds			12.2	296
			..	266
Melamine and urea formaldehyde (aminoplastics)	16.0	450	0.3	10
	..	304	..	17
Thermosetting polyesters (including epoxide resins and resin glass fibre mixtures)			8.7	115
			..	20
Rubber in all forms	..	280	..	340
Woven piece goods (other than narrow fabrics) wholly or mainly of cotton	Th.sq.yds.		Th.sq.yds.	
	1,130	187	630	101
	..	57	..	13
Optical glass (including glass for spectacle lenses) in unworked form	Th.cwt.		Th.cwt.	
	27.0	328	31.2	396
	..	146	..	516
Semi-finished blanks for lenses (including bifocal and multi-focal blanks)	..	609	..	989
Finished lenses optically worked	Thousands		Thousands	
Ophthalmic (uncut or edged)	3,913	362	3,594	473
	..	212	..	436
Other (including photographic and cinematographic)	..	167	..	562
Spectacle frames and mounts and parts thereof (d)	..	1,108	..	1,571
Photographic paper (not sensitised) including baryta coated	..	1,797	..	3,531
Photographic and cinematographic film base (not sensitised)	..	6,309	..	5,669
Cases for holding instruments, appliances, etc.	..	233	..	357
Components, parts and accessories and semi-manufactured goods, not elsewhere specified				
Electrical				
Motors	2.3	19(e)	147	1,303
	..	44(e)	..	244
Valves (electronic) and semi-conductor devices	..	127(e)	1,816	365
			..	319
Other	..	692(e)	..	7,756
Wholly or partly of plastics materials (other than electrical)	..	634(f)	..	1,348
Other	..	3,857	..	10,658

Continued on next page

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing (continued)	Th.gal.	£'000	Th.gal.	£'000
Lubricating oils and greases (including cutting oils and emulsions)	30.8 ..	10(e) 3(e)	180 Th.cwt. 0.2 ..	47 2 56
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	846	..	1,517
All other materials for processing	..	13,437	..	19,349
Packaging materials				
Paper and board				
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard	..	1,271	..	1,610
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)	..	(g)	..	811
Timber			Th.cu.ft.	
Timber (sawn or planed) for manufacture into packing cases, etc.			{ 147 ..	22 26
Plywood for manufacture into packing cases	..	366(h)	{ 45.2 ..	3 2
Other wood products for packaging including wood wool (except plywood boxes and drums, baskets, wickerwork crates, and other containers wholly or mainly of wood)			..	44
All other packaging materials	..	905	..	914
Fuel and electricity (i)	Th.tons		Th.tons	
Coal	48.9	220	{ 9.6 ..	73 11
Coke (including screenings) and manufactured fuel	{ 14.6 ..	{ 86 19	{ 6.6 ..	{ 62 12
Derv fuel and motor spirit for use in road vehicles	{ Th.gal. 722 ..	{ 149 43	{ Th.gal. 1,150 ..	{ 237 49
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	{ 3,664 ..	{ 154 29	{ 15,069 ..	{ 602 74
Gas	{ Th.therms 4,335 ..	{ 272 87	{ Th.therms 3,205 ..	{ 269 169
Electricity	{ Th.kWh 79,611 ..	{ 530 158	{ Th.kWh 128,104 ..	{ 932 547
Total cost of materials and fuel		43,672		78,651
Goods purchased for merchanting		..		19,638
Canteen purchases		..		824
Total cost of purchases		..		99,113

- (a) Described in 1954 as 'Angles, shapes, sections, bars and rods (except sheet and tinplate bars)'.
 (b) 'Wire and scrap' were not specifically excluded in 1954.
 (c) 'Manufactures of silver' were not included in 1954.
 (d) Described in 1954 as 'Frames and mountings and parts thereof for spectacles, goggles, pince-nez, eyeglasses and monocles'.
 (e) So far as recorded separately.
 (f) Electrical components, etc. were not specifically excluded in 1954.
 (g) Not recorded separately in 1954.
 (h) Including containers made of timber in 1954.
 (i) The total quantity of electricity generated in firms' own establishments in this industry in 1963 was 45,153 Th. kWh. Owing to the risk of disclosure of information relating to individual firms the quantity for 1954 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.	736
Transport costs		
Wages and salaries	£'000	639
Derv fuel and motor spirit	"	287
Payments to other organisations for transport	"	823
Costs of operating road goods vehicles		
Insurance	"	56
Vehicle licences	"	39
Depreciation	"	264
Payments to other organisations for repairs and maintenance	"	107
Total	"	2,216

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	445
Road goods vehicles	107
Plant, machinery, and other capital equipment	603
Insurance, licensing and depreciation of road goods vehicles (b)	360
Rates, excluding water rates	1,550
Hire of plant and machinery	295
Postage, telephone, telegrams and cables	1,600
Total	4,961

- (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)	7.4	November	12.5
May	0.5	December	28.7
June	5.6	1964	
July	1.8	January	3.1
August	9.6	February	0.9
September	9.2	March	14.8
October	5.8	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 merchandising 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 (merchanted 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 merchandising 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.

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