

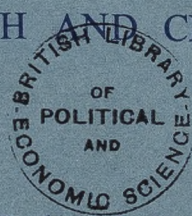
BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 5: Industry I

WATCH AND CLOCK



*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

1957

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The Report on the Census of Production for 1954

VOLUME 5 INDUSTRY I

WATCH AND CLOCK

THIS REPORT on the Watch and Clock Industry relates to establishments engaged wholly or mainly in the manufacture of watches and clocks (including electric clocks), and in the repair of watches and clocks if done for the trade, but not if done directly for the public. Government establishments are included for post-war years.

There were no larger establishments in Northern Ireland in the register for this industry.

This industry corresponds to minimum list heading 101 in the Standard Industrial Classification.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and 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.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); 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, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

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

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary: Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954 (a)
	1948	1951	1954		
Gross output (production)	£ million 9.3	£ million 12.8	£ million 13.3	£ million 3.75	£ million ..
Net output	5.3	7.1	7.7	2.30	..
Total stocks and work in progress					
At beginning of year	1.7	1.9	2.2	0.35	..
Change during year	+ 0.5	+ 0.6	+ 0.4	+ 0.09	..
Capital expenditure less disposals (b)	0.4	0.4	0.5	0.14	..
Wages and salaries	3.4	4.3	5.0	1.06	..
Total employment (including working proprietors)	Thousands 11.3	Thousands 12.3	Thousands 11.7	Thousands 2.53	Thousands ..

(a) Owing to the risk of disclosure of information relating to individual undertakings separate details cannot be given.

(b) Capital expenditure on new building work, and on plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	86	82	67
Total value of sales and work done	£'000	7,172	11,398	11,777
Products on hand for sale		698	980	1,171
and work in progress		+ 194	+ 193	+ 246
Gross output (production) (a)		7,354	11,591	12,022
Purchases of materials and fuel		3,248	5,421	4,922
Stocks of materials and fuel		673	706	853
Cost of materials and fuel used		+ 177	+ 371	+ 150
Payment for work done on materials given out		3,071	5,050	4,772
Payment for transport (b)		124	93	178
		12	49	81
Net output		4,160	6,398	6,991
Average number of employees		7,485	8,952	8,355
Total employment (d)		1,490 (c)	2,146	2,251
Net output per person employed (d)	£	8,990	11,110	10,610
		463	576	659
Wages and salaries	£'000	1,973	2,862	3,129
Capital expenditure		719	1,047	1,432
New building work (e)		79	59	64
Plant and machinery		249	317	303
Vehicles		5	7	11
		29	32	39
		7	10	15
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	647	232 (f)	171
Total employment, including working proprietors		2,173	1,047 (f)	743

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

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

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

WATCH AND CLOCK

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	16	311	173	228	47	87	29	12	627
25 - 49	16	473	312	421	129	162	87	7	564
50 - 99	12	1,145	572	739	145	274	105	28	646
100 - 199	8	1,102	607	773	206	294	103	23	620
200 - 299	6	1,387	785	1,078	309	408	167	52	566
300 - 399	-	-	-	-	-	-	-	-	-
400 and over	9	7,605	4,542	5,116	1,415	1,903	941	284	695
Total	67	12,022	6,991	8,355	2,251	3,129	1,432	406	659

(a) Excluding outworkers and including working proprietors.

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

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of		Remainder of the industry	Total
		Clocks and parts of clocks	Watches and parts of watches		
Number of establishments	No.	33	15	19	67
Total value of sales and work done	£'000	4,915	4,796	2,065	11,777
Sales of characteristic products	"	4,186	4,341		
Products on hand for sale	{ at beginning of year	373	(a)	(a)	1,171
and work in progress	{ change during year	+ 26	+ 204	+ 15	+ 246
Gross output (production)	"	4,941	5,001	2,080	12,022
Purchases of materials and fuel	"	2,240	1,923	760	4,922
Stocks of materials and fuel	{ at beginning of year	478	(a)	(a)	853
{ change during year	{	+ 92	+ 40	+ 17	+ 150
Cost of materials and fuel used	"	2,147	1,882	742	4,772
Payment for work done on materials given out	"	60		178	178
Payment for transport	"	41	119	39	81
Net output	"	2,693	3,000	1,298	6,991
Average number of employees	{ operatives	3,427	3,402	1,526	8,355
{ others	"	728	955	568	2,251
Total employment (b)	"	4,158	4,358	2,094	10,610
Net output per person employed (b)	£	648	688	620	659
Wages and salaries	{ of operatives	1,276	1,169	684	3,129
{ of others	"	426	666	340	1,432
Capital expenditure					
New building work (c)	"	16	(a)	(a)	64
Plant and machinery	{ acquisitions (c)	130	155	18	303
{ disposals	"	5	5	-	11
Vehicles	{ acquisitions (c)	12	21	6	39
{ disposals	"	5	8	2	15

(a) Owing to the risk of disclosure of information relating to individual undertakings separate details cannot be given.

(b) Excluding outworkers and including working proprietors.

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

WATCH AND CLOCK

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

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Thousands	£'000	Thousands	£'000	Number
Clocks, complete					
Electric, including mains operated, battery and master clocks (with slave dials)					
Time recorders	7.3	287	4.1	217	5
	..	113	..	266	6
Other kinds (excluding time switches)	670.1	895	471.6	649	14
	..	206	..	276	9
Other than electric					
Alarm clocks	3,722.9	1,822	3,327.2	1,704	7
Time recorders	13.1	313	13.4	190	11
			..	19	
Other kinds (excluding time switches)	1,383.6	1,718	866.2	943	20
			..	133	9
Parts of clocks					
Clock movements, complete					
For electric clocks	115.9	89	81.2	71	6
	..	13	..	19	
For other clocks	738.7	614	795.9	582	14
Clock cases	857.6	493	406.9	253	8
	..	108	..	102	6
Other parts of clocks (excluding springs)	..	744(a)	..	381	26
Total clocks and parts (excluding springs)		7,414		5,807	..
Watches, complete					
Wristlet type with gold cases	1,873.9	2,619	7.3	42	6
			..	59	
Other			2,995.6	3,510	11
Parts of watches					
Watch cases (wristlet or pocket type)					
Of gold	179.4	370	144.1	307	6
			..	43	
Of other metals	554.2	185	610.9	170	6
			..	88	
Other parts of watches (excluding springs)	..	132(b)	..	287	14
Repair work (c)		505		622	39
Other work done for the trade or on commission (c)		112		187	11
Total		11,336		11,121	..
Sales in other industries (see Table 6)		978		901	..
Principal products of this industry sold by establishments in the industry		10,358		10,220	60

(a) Described as 'Other parts of clocks (excluding springs and glasses)'.

(b) Described as 'Other parts of watches (excluding springs, glasses and jewels)'.

(c) Amount charged.

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

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Thousands	£'000	Number	
Clocks, complete				
Electric, including mains operated, battery and master clocks (with slave dials)				
Time recorders	..	256	6	4K, 4M
Other kinds	9.3	18	10	4K, 4M
	..	209		
Other than electric	11.4	41	12	3J, 4I, 4K
	..	64		
Parts of clocks				
Clock movements, complete and clock cases	11.4	29	8	4K, 4M, 10B
	..	65		
Other parts of clocks (excluding springs)	..	69	10	4I, 4M, 5C, 5E
Total clocks and parts (excluding springs)		750	..	
Watches complete, and parts (excluding springs)	..	105	8	5G, 5J, 11I
Repair work (b)		46	..	
Total		901	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Amount charged.

Sales in the industry of other than principal products

Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
		£'000
Scientific instruments and apparatus, and parts	..	476
Machinery and parts	..	125
Furniture, not upholstered, mainly of wood	..	17
Manufactures of paper	..	46
Other goods	..	732
Waste products sold	..	160
Total		1,556

TABLE 8 - Total make of intermediate products

Larger establishments in the United Kingdom

This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.cwt.	£'000
Materials		
Brass and copper alloys (including nickel silver and cupro-nickel, but excluding other nickel alloys) in all forms except finished parts and scrap	42.3	649
Springs for watches and clocks	..	194
Steel in all other forms, except finished parts and scrap	63.3	228
Gold	Th.oz.troy 28.4	241
Aluminium (a)	Th.cwt. 1.8	34
Glasses for watches and clocks	..	5
Parts of clocks	..	118
Clock cases	Thousands 1,275.4	174
Clock movements, complete	..	88
Other parts of clocks, including synchronous electric motors	394.8	191
Parts of watches, including complete watch movements	..	42
Packing materials	..	449
Replacement parts for machinery, plant and vehicles and consumable tools bought as replacements	..	1,022
All other purchased materials	..	227
Fuel and electricity	Th.tons	
Coal	4.1	19
Coke	1.0	6
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and deriv. fuel	46.6	11
Other	-	-
For burning in furnaces, boilers, kilns, etc.	354.5	17
Gas purchased	Th.therms	
From Gas Boards	387.3	23
From other sources, including other departments of the same firms	-	-
Electricity purchased (b)	Th.kWh.	
From Electricity Boards	11,319	69
From other sources, including other departments of the same firms	-	-
All other purchased fuel		9
Total cost		4,922

(a) So far as separately recorded.

(b) No electricity was generated in firms' own establishments in this industry in 1954.

WATCH AND CLOCK

Average number of employees, and wages, salaries
and superannuation payments (a)

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	8,952	8,355
Administrative, technical and clerical employees	2,146	2,251
Total	11,098	10,606
	£'000	£'000
Wages and salaries paid to		
Operatives	2,862	3,129
Administrative, technical and clerical employees	1,047	1,432
Total	3,909	4,561
	£	£
Wages and salaries per head		
Operatives	320	375
Administrative, technical and clerical employees	488	636
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	39
		Number
Employees covered	..	1,251
		£'000
Pension, etc. payments to former employees and dependents	..	3

(a) The following persons, not included above, were also employed by larger establishments in this industry
(‘other workers’ includes, for example, employees engaged in merchanting):

	1951	1954
	Number	Number
Canteen workers		
Males	6	7
Females	90	100
Total	96	107
Other workers		
Males	31	100
Females	17	115
Total	48	215
Total excluded employees	144	322

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	12	-	12	4	-	4
Operatives	4,483	4,685	9,168	4,031	5,193	9,224
Administrative, technical and clerical employees	1,355	866	2,221	1,408	958	2,366
Total employees	5,838	5,551	11,389	5,439	6,151	11,590

(a) Week ended September 22, 1951, or October 30, 1954.

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