

BOARD OF TRADE

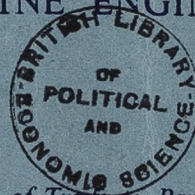
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*The Report on the
Census of Production
for 1954*

Volume 4: Industry B

MARINE ENGINEERING



*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)*

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The Report on the Census of Production for 1954

VOLUME 4 INDUSTRY B

MARINE ENGINEERING

THIS REPORT on the Marine Engineering Industry relates to establishments, other than Government establishments, engaged wholly or mainly in the manufacture, repair and installation of main and auxiliary engines for ships, marine boilers and turbines, and engines and out-board motors for motor boats.

This industry corresponds to minimum list heading 51(2) in the Standard Industrial Classification: there were no Government Departments mainly engaged in marine engineering corresponding to minimum list heading 51(1).

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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
	1948	1951	1954		
Gross output (production)	£ million	£ million	£ million	£ million	£ million
Net output	59.7	68.5	83.3	30.84	-
Total stocks and work in progress	28.4	31.8	35.6	12.37	-
At beginning of year	51.1	53.3	61.1	28.56	-
Change during year	+ 4.0	+ 1.7	- 1.6	- 0.45	-
Capital expenditure less disposals (a)	1.6	2.1	2.8	1.18	-
Wages and salaries	20.0	21.9	25.1	9.19	-
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	62.0	57.2	51.9	19.29	-

(a) 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.	97	96	96
Total value of sales and work done	£'000	49,043	67,709	84,128
Products on hand for sale	"	41,330	49,119	53,323
and work in progress	"	+ 3,068	+ 583	- 1,257
Gross output (production) (a)	"	51,905	68,292	82,871
Purchases of materials and fuel	"	26,498	35,773	43,328
Stocks of materials and fuel	"	3,108	4,047	7,435
Cost of materials and fuel used	"	+ 447	+ 1,124	- 349
Payment for work done on materials given out	"	26,051	34,650	43,677
Payment for transport (b)	"	1,162	1,591	3,346
	"	206	310	422
Net output	"	24,692	31,743	35,425
Average number of employees	No.	45,318	47,488	43,236
Total employment (d)	"	8,532(c)	9,521	8,377
Net output per person employed (d)	"	53,858	57,014	51,616
	£	458	557	686
Wages and salaries	£'000	13,934	17,247	20,140
	"	3,468	4,551	4,807
Capital expenditure	"			
New building work (e)	"	278	301	690
Plant and machinery	"	1,138	1,458	2,090
	"	45	58	38
Vehicles	"	32	49	61
	"	2	7	9
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	22	30(f)	42
Total employment, including working proprietors	"	134	158(f)	232

(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.

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(c)	15	263	152	195	56	78	25	14	600
25 - 49	11	645	388	334	85	140	55	14	926
50 - 99	13	1,372	640	748	165	332	92	18	701
100 - 199	14	3,542	1,680	1,546	433	670	262	75	849
200 - 299	8	3,148	1,340	1,594	422	677	228	141	665
300 - 499	9	4,611	2,449	2,809	619	1,284	370	147	714
500 - 749	3	3,361	1,182	1,778	262	810	153	39	579
750 - 999	4	6,034	2,764	2,816	552	1,348	326	144	821
1,000 - 1,499	9	20,222	7,716	9,252	1,528	4,312	852	602	716
1,500 - 1,999	4	12,797	5,380	5,622	1,136	2,675	695	587	796
2,000 - 2,499	3	10,014	4,166	5,578	1,257	2,613	652	299	610
2,500 and over	3	16,862	7,566	10,964	1,862	5,201	1,096	762	590
Total	96	82,871	35,425	43,236	8,377	20,140	4,807	2,842	686

(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.

(c) Including one establishment with fewer than 11 persons employed, particulars of which were included with those for a larger establishment on a single return.

TABLE 4 - Analysis according to specialisation within the industry, 1954

No specialisation within this industry was distinguished.

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

Kind of output (i) Complete machines (ii) Parts	1951			1954			Entries
	Quantity	Value		Quantity	Value		
	No.	I.h.p.	£'000	No.	I.h.p.	£'000	Number
Marine machinery							
Propelling machinery							
Steam reciprocating	{ (i) 89	113,410	2,450	{ 57	78,085	2,406	15
	{ (ii) ..	..	18	{ ..	..	280	16
			223				
	No. of sets	Shaft h.p.		No. of sets	Shaft h.p.		
Steam turbine	{ (i) 52	481,145	6,018	{ 45	509,245	6,972	15
	{ (ii) 32	..	345	{ 95	..	843	14
			744			1,293	
Internal combustion reciprocating engines							
Compression ignition (diesel)							
Not exceeding 50 b.h.p.	{ (i) 1,663	36,318	705	{ 2,465	48,810	995	18
	{ (ii) 117	..	73	{ 3,801	..	623	15
			222			236	
Over 50 b.h.p., not over 300 b.h.p.	{ (i) 1,054	101,848	1,448	{ 1,010	107,933	1,910	22
	{ (ii) ..	..	460	{ ..	..	577	17
Over 300 b.h.p., not over 1,500 b.h.p.	{ (i) 88	53,393	1,139	{ 320	205,053	4,877	13
	{ (ii)	400	{	959	14
Over 1,500 b.h.p.	{ (i) 121	548,820	16,698	{ 120	523,260	15,514	22
	{ (ii)	1,463	{	3,379	20

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TABLE 5 (contd.)

Kind of output (i) Complete machines (ii) Parts	1951			1954			Entries
	Quantity	Value		Quantity	Value		
	No.	B.h.p.	£'000	No.	B.h.p.	£'000	Number
Marine machinery (contd.)							
Propelling machinery (contd.)							
Internal combustion reciprocating engines (contd.)							
Other, including paraffin, petrol and semi-diesel engines, but excluding turbines	{ (i) 16,721(a)	73,791(a)	749(a)	11,230	39,739	485	10
	{ (ii) 2,198	..	98	818	..	91	
	{ (ii) ..	..	16	..	..	95	
Unclassified propelling machinery	{ (i) ..	..	213(a)	..	..	296	16
	{ (ii) ..	..	9	-	-	-	-
Auxiliary machinery							
Steam reciprocating engines	{ (i) 615	I.h.p. 24,911	384	466	I.h.p. 23,349	451	9
	{ (ii) ..	..	98	..	..	107	10
Internal combustion							
Compression ignition (diesel)	{ (i) 1,595	B.h.p. 167,238	2,244	1,159	B.h.p. 149,166	3,420	17
	{ (ii) ..	..	741	..	..	800	17
Other, including paraffin, petrol and semi-diesel engines, but excluding turbines	(i) and (ii) ..	..	(b)	..	..	97	10
Boilers							
Water tube	{ (i) 68	..	1,498	{ 44	..	1,695	13
	{ (ii) ..	..	499	{ ..	..	1,772	
			238			346	11
Scotch type	{ (i) 272	..	1,510	{ 218	..	1,530	18
	{ (ii) ..	..	100	{ ..	..	186	9
Other	{ (i) 138	..	280	{ 143	..	341	10
	{ (ii) ..	..	21	{ ..	..	50	
			53			11	..
Condensers	{ (i) 174	..	379	{ 217	..	348	17
	{ (ii) ..	..	18	{ ..	..	82	
			..			12	9
Steering gear	{ (i) ..	..	1,321(c)	{ ..	..	1,742	12
	{ (ii) ..	..	..	{ ..	..	61	16
Other marine machinery	{ (i) ..	..	5,213	{ ..	..	21,337	71
	{ (ii) ..	..	2,295	{ ..	..	2,497	81
Unclassified marine machinery and parts (d)	..	..	2,458	..	..	6,065	5
Waste products sold, other than scrap metals	..	..	12	..	..	5	12
Marine machinery purchased and installed and other installation work (e) (f)			13,067			15,782	47
Repair and jobbing work (e) (f)			3,816			4,031	47
Other work done for the trade or on commission (f)			1,175			1,395	29
Total			71,267(a)			105,993	..
Sales in other industries (see Table 6)			11,317(a)			29,285	..
Principal products of this industry sold by establishments in the industry			59,950			76,708	81

(a) Revised figure.

(b) Included in 'Other marine machinery' in 1951.

(c) So far as recorded separately.

(d) Including installation charges.

(e) Exclusive of the value of goods made by the firms and recorded as their output.

(f) Amount charged.

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MARINE ENGINEERING

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

Larger establishments in the United Kingdom

TABLE 6

Kind of output (i) Complete machines (ii) Parts	1954			Principal industries in which produced (a)
	Quantity	Value £'000	Entries Number	
Marine machinery				
Propelling machinery				
Steam reciprocating and steam turbine	{ (i) .. (ii) ..	2,155 482	6 12	4I, 4K 4I, 4J, 4K
Internal combustion reciprocating engines Compression ignition (diesel)				
Not exceeding 50 b.h.p.	{ (i) 1,793 (ii) 3,801	621 623	11	3I, 3K, 4I
Over 50 b.h.p., not over 300 b.h.p.	{ (i) .. (ii) 684	145 1,355	9 14	4I 3I, 3K, 4I
Over 300 b.h.p., not over 1,500 b.h.p.	(i) and (ii) ..	278 4,617	11 8	4G, 4I 4I, 4K
Over 1,500 b.h.p.	(i) and (ii) ..	305	..	4I
Other, including paraffin, petrol and semi-diesel engines but excluding turbines	{ (i) 10,868 (ii) 802	33,612 86	..	3I, 4I, 4J
Auxiliary machinery				
Steam reciprocating engines	(i) and (ii) ..	364	9	4I, 4J
Internal combustion, excluding turbines	{ (i) 1,125 (ii) ..	143,727 772	14 19	4I 4I
Boilers				
Water tube	(i) and (ii) ..	2,658	11	4I
Other	{ (i) 123 (ii) ..	328 50	6	4F, 4I
Condensers	{ (i) 156 (ii) ..	285 12	10	4I, 4K
Steering gear	(i) and (ii) ..	2	..	4I
Other marine machinery	{ (i) .. (ii) ..	247 7,881	17 40	4G, 4I 3I, 4I, 4J
Marine machinery purchased and installed and other installation work (b)		1,272	58	4D, 4F, 4I, 4J
Total		29,285	..	4A, 4I, 4J

(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, exclusive of the value of goods made by the firms and recorded as their output.

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Sales in the industry of other than principal products
Larger establishments in the United Kingdom

TABLE 7

Kind of output (i) Complete machines (ii) Parts	1954	
	Quantity	Value £'000
Boilers and boiler-house plant (other than boilers for ships and locomotives, burners and furnaces)	{ (i) .. (ii) ..	146 41
Prime movers		
Internal combustion, new, other than engines for aircraft, road vehicles (including agricultural tractors), ships and boats		
Compression ignition (diesel and dual fuel)	{ (i) No. 623 (ii) ..	B.h.p. 11,498 212 1,177 158
Other prime movers	{ (i) No. of sets 63 (ii) ..	H.p. 1,238 29 356 20
Pumps	{ (i) No. 740 (ii) ..	101 5 35
Machinery and parts, not elsewhere specified	..	2,087
Iron castings, in the rough or machined sold separately	..	237
Scrap metals sold		
Iron and steel	{ Th. tons 36 ..	181 23
Brass	{ 0.7 ..	122 17
Other	..	176
Other goods	..	2,220
Work done (a)	..	76
Total		7,420

(a) Amount charged.

TABLE 8 - Total make of certain intermediate products
Larger establishments in the United Kingdom

The total quantity of iron and steel castings recorded as made in this industry in 1954 was 15,400 tons, of which about 300 tons were of steel.

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

Materials	Quantity	Cost
	Th. tons	£'000
Iron and steel		
Drop-forgings	1.2	243
Wrought tubes and fittings for wrought tubes	7.1	567
Fabricated bridge components and other structural iron and steelwork	{ 0.3 ..	20 55
Wire (single wire)	..	2
Wire manufactures, including wire cables and ropes and stranded wire of two or more ply	{ 0.1 ..	20 13

TABLE 9 (contd.)

Materials (contd.)	Quantity	Cost
	Th.tons	£'000
Iron and steel (contd.)		
Chains	..	25
Transmission and conveyer types	..	11
Other chains	4.1	31
Iron and steel scrap		
Other iron	9.9	198
Pig-iron, except refined pig-iron		
Castings in the rough or machined except machined castings elsewhere specified	27.3	2,437
Other iron, except finished parts	1.0	30
Ferro-alloys	..	1
Spiegeleisen and ferro-manganese (other than refined)	..	4
Other ferro-alloys		
Other steel (alloy and non-alloy)		
Ingots, blooms, billets, and slabs, and sheet and tinplate bars	2.8	139
Angles, shapes, sections, bars, rods (including wire rods) and girders, beams and joists (not fabricated)	17.3	801
Castings in the rough or machined, except machined castings elsewhere specified	8.5	1,334
Forgings, except drop-forgings, in the rough or machined, except machined forgings elsewhere specified	25.7	3,836
Tin-, terne-, and black-plates and tinned and terne sheets	0.1	9
Other plates and sheets, 1/8in. thick and over, and hoop and strip (including tape) of all thicknesses	47.4	1,745
Other plates and sheets under 1/8in. thick, including electrical quality sheets	1.2	58
Axles, tyres and wheels (rail type)	-	-
Springs, laminated and other types	..	20
Light metals and non-ferrous metals in all forms, except finished parts, wire and scrap	Th.cwt.	
Aluminium and aluminium alloys	26.1	534
Magnesium and magnesium alloys	..	2
Antimony	0.2	2
Brass and other alloys of copper, including nickel silver and cupro-nickel, but excluding other nickel alloys	39.6	942
Castings	77.8	1,200
Other	75.4	1,318
Copper	1.3	14
Lead and alloys of lead, except solder	4.8	168
Tin	..	81
Zinc	5.8	40
Non-ferrous metal wire, not insulated	..	1
Soft solder	..	4
Scrap non-ferrous metals	1.0	11
Insulated wires and cables	..	80
Rubber in all forms, including finished parts	..	60
Refractory materials	1.7	35
	..	19
	Th.tons	23
	1.7	7
	..	

TABLE 9 (contd.)

Materials (contd.)	Quantity	Cost
		£'000
Asbestos in all forms, including finished parts	..	49
Other thermal insulating materials	..	117
Paint, enamel and varnish	..	56
Lubricating oils and greases (including cutting oil and emulsions)	Th.gal. 243.3	65
Timber (excluding timber for making into packing cases, etc. or for repairing returnable cases)	..	55
Hardwood and softwood	Th.cu.ft. 108.1	102
Plywood, including battenboard, blockboard and laminboard	..	20
Nuts, bolts, studs, screws, rivets, washers, nails, tacks, etc.	Th.sq.ft. 85.2	6
Purchased components for incorporation in own products	..	345
Ball and roller bearings and parts	..	164
Internal combustion engines	No. 710	965
Electric motors	..	454
Pumps	1,238	638
Industrial valves	..	547
Gears and gearwheels of metal	3,103	1,445
Measuring instruments and gauges and parts	..	1,227
Electronic (including valves)	..	713
Other	..	307
Other purchased components	..	10
Finished components of plastic materials	..	149
Other, not elsewhere specified	..	17
Replacement parts for plant, machinery and vehicles	..	8,501
Consumable tools, including gauges, etc. bought as replacement	..	527
Packaging materials	..	628
Paper and paperboard, and cardboard boxes, fibreboard packing cases, etc.	..	3
Timber and timber packing cases, etc.	Th.cu.ft. 138.2	72
Jute piece goods, including hessian, and jute sacks and bags	..	20
Other packing materials	..	2
All other purchased materials	..	11
Fuel and electricity	..	8,262
Coal	Th.tons 60.0	254
Coke	33.5	214
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines		
Motor spirit (petrol) for use in road vehicles and derv. fuel	Th.gal. 238	43
Other	2,245	114
For burning in furnaces, boilers, kilns, etc.	7,422	270
Gas purchased	Th.therms 4,376	191
From Gas Boards	..	6
From other sources, including other departments of the same firms	..	6
Electricity purchased (a)	Th.kWh. 134,329	584
From Electricity Boards	..	21
From other sources, including other departments of the same firms	2,614	21
All other purchased fuel		10
Total cost		43,328

(a) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 1,658 Th.kWh.

MARINE ENGINEERING

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	47,488		43,236	
Administrative, technical and clerical employees	9,521		8,377	
Total	57,009		51,613	
	£'000		£'000	
Wages and salaries paid to				
Operatives	17,247		20,140	
Administrative, technical and clerical employees	4,551		4,807	
Total	21,799		24,948	
	£		£	
Wages and salaries per head				
Operatives	363		466	
Administrative, technical and clerical employees	478		574	
			£'000	
Superannuation and other pension funds for employees and dependents (b)				
Employers' contributions	..		241	
			Number	
Employees covered	..		6,889	
			£'000	
Pension, etc. payments to former employees and dependents (b)	..		48	

(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		
Male	4	6
Female	164	175
Total	168	181
Other workers		
Male	9	1
Female	7	1
Total	16	2
Total excluded employees	184	183

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)
Larger establishments in the United Kingdom

TABLE 11	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	5	-	5	3	-	3
Operatives	46,853	821	47,674	42,477	775	43,252
Administrative, technical and clerical employees	7,288	2,287	9,575	6,362	2,109	8,471
Total employees	54,141	3,108	57,249	48,839	2,884	51,723

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

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