



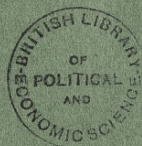
BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 4

Trade M

RADIO AND TELECOMMUNICATIONS



*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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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. NET

List of Tables

Table No.	Title	Page.
1	Summary: Larger establishments	4/M/2
2	Summary, 1948: Small firms in Great Britain	4/M/3
3	Estimated average employment, 1948: All firms in Great Britain	4/M/3
4	Analysis by size, 1948: Larger establishments in Great Britain	4/M/4
5	Analysis by standard region, 1948: Larger establishments in Great Britain	4/M/5
6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	4/M/6
7	Total make of intermediate products: Larger establishments	4/M/6
8	Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades: Larger establishments	4/M/7
9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	4/M/12
10	Sales (or production) in the trade of other than principal products: Larger establishments	4/M/16
11	Analysis of sales, 1948: Larger establishments in Great Britain	4/M/17
12	Production, exports and imports of certain principal products: Larger establishments	4/M/18
13	Purchased materials and fuel: Larger establishments	4/M/22
14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	4/M/29
15	Employment and remuneration: Larger establishments	4/M/30
16	Wages and salaries paid, 1948: Larger establishments in Great Britain	4/M/32
17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	4/M/32
18	Payments for certain services, 1948: Larger establishments in Great Britain	4/M/33
19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	4/M/34
20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	4/M/34

Country Tables

Table No.	Title	Page
21	Summary: Larger establishments	4/M/35
22	Summary: Small firms	4/M/36
23 or 23(1)	Sales in the trade: Larger establishments	4/M/37
23(11)	Sales in the trade: Small firms	*
24 or 24(1)	Purchased materials and fuel: Larger establishments	4/M/44
24(11)	Purchased materials and fuel: Small firms	*
25 or 25(1)	Employment and remuneration: Larger establishments	4/M/51
25(11)	Employment: Small firms	*
26	Monthly index of employment of operatives: Larger establishments	4/M/53

* Not applicable to this trade

RADIO AND TELECOMMUNICATIONS TRADE

THIS REPORT on the Radio and Telecommunications Trade relates to establishments engaged wholly or mainly in the manufacture of telegraph and telephone equipment, radio apparatus, gramophones, electric lamps, including discharge lamps, etc. Production by Government Departments was not recorded for 1937.

This trade corresponds to minimum list headings 72, 73 and 74 in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1946 and 1937; production, recorded there only by Government Departments in 1935, accounted for approximately 1.4 per cent. of the net output of Government Departments for the United Kingdom.

RADIO AND TELECOMMUNICATIONS TRADE

Summary

Larger establishments

TABLE 1

	A. Private firms				B. Government Departments		
	1948	1946	1937	1935	1948 (a)	1946 (a)	1935 (b)
Gross output (production)	£'000 109,332	£'000 77,521	£'000 36,314	£'000 27,910	£'000 43,320	£'000 35,045	£'000 11,950
Cost of materials and fuel used	48,545	33,102	16,204	12,810	10,657	6,397	3,417
Payment for work done on materials given out	955	679	61	23	9	12	7
Net output	59,832	43,740	20,049	15,077	32,654	28,636	8,526
Wages and salaries of persons employed	£'000 38,785	£'000 30,777	No. ..	No. ..	£'000 24,228	£'000 19,806	No. ..
Average number of persons employed (c)	133,861(d)	122,599	81,383	65,729	67,191	64,996	36,192
Net output per person employed (c)	£'000 447	£'000 357	£'000 246	£'000 229	£'000 486	£'000 441	£'000 235
Stocks at end of year.							
Finished products and work in progress	32,367	19,996	4,092(e)	2,450(e)	1,289	1,200	49(e)
Materials and fuel	15,260	9,270	No. ..	No. ..	659	900	No. ..
Number of establishments	No. 406	No. ..	No. ..	No. 156	No. 15	No. ..	No. 20

(a) Great Britain only.

(b) United Kingdom.

(c) Excluding outworkers.

(d) For an estimate of the total number of persons employed in this trade see Table 3.

(e) Work in progress only.

The values of gross output and of materials and fuel used are derived in the following way:-

	A. Private firms				B. Government Departments		
	1948	1946	1937	1935	1948	1946	1935
Output of establishments in this trade	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Total value of sales (1948 and 1946) or production (1937 and 1935)							
Principal products (see Table 8)	90,129	87,121	31,976	24,974	42,223	35,016	11,555
Other output (see Table 10)	14,171		3,280	2,511	955		384
Adjustment for changes in stocks and work in progress	+ 5,375(a)	- 9,600	+ 1,058(b)	+ 425(b)	+ 143(a)	+ 29	+ 11(b)
	109,675	77,521	36,314	27,910	43,320	35,045	11,950
Less payment for transport by other firms	343				-		
Gross output (production)	109,332	77,521	36,314	27,910	43,320	35,045	11,950
Materials and fuel used by establishments in this trade							
Purchases (see Table 13)	49,254	33,171	16,204	12,810	10,734	6,574	3,417
Adjustment for changes in stocks	- 709(a)	- 69			- 77(a)	- 177	
Materials and fuel used	48,545	33,102	16,204	12,810	10,657	6,397	3,417

(a) See Table 14.

(b) Work in progress only.

Summary, 1948

Small establishments in Great Britain

TABLE 2

	A. Private firms	B. Government Departments
Number of returns	139	-
Average number of persons employed (a)		
Males	639	-
Females	179	-
Total	818	-

(a) Including working proprietors.

Estimated average employment, 1948

All establishments in Great Britain m

TABLE 3

	A. Private firms	B. Government Departments
As returned by establishments		
Employed on average more than ten persons (a)	133,861	67,191
Employing on average ten persons or less (b)	818	-
	134,679	67,191
Estimated average employment in establishments not making satisfactory returns	401	-
Estimated average employment in all establishments	135,080	67,191

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948
Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
A. Private firms								
11-24	75	982	542	1,278	234	116	350	424
25-49	82	2,614	1,316	2,896	528	229	758	454
50-99	66	3,954	1,844	4,651	854	412	1,266	397
100-199	71	8,356	4,347	10,222	1,774	1,003	2,777	425
200-299	27	6,338	3,156	6,488	1,173	602	1,775	486
300-399	21	6,776	3,300	7,078	1,386	621	2,008	466
400-499	7	2,770	1,530	3,284	644	288	932	466
500-749	19	9,933	5,403	11,893	2,212	1,155	3,368	454
750-999	7	5,281	2,607	6,029	1,226	339	1,565	432
1,000-1,499	13	12,461	6,688	16,002	3,003	1,403	4,406	418
1,500 and over	18	49,867	29,100	64,040	12,622	6,955	19,581	454
Total private firms	406	109,332	59,832	133,861	25,661	13,125	38,785	447
B. Government Departments								
25-49	3	80	69	100	32	5	38	692
100-199	3	243	190	429	98	45	142	443
200-299	2	351	206	591	160	34	194	349
300-399	1	247	153	355	95	26	121	431
400-499	1	324	198	462	124	33	157	429
500-749	1	469	289	672	179	48	227	430
1,000-1,499	1	820	464	1,384	354	80	433	335
1,500 and over	3	40,786	31,084	63,198	17,734	5,181	22,915	492
Total Government Departments	15	43,320	32,654	67,191	18,776	5,452	24,228	486

Analysis by standard region, 1948
Larger establishments in Great Britain
A. Private firms

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Northern	22	3,630	2,325	3.9	6,018	1,006	396	1,402
East and West Ridings of Yorkshire	20	1,343	728	1.2	1,915	370	107	477
N. Midland	11	4,519	2,633	4.4	6,072	1,267	457	1,724
Eastern	39	12,262	6,032	10.1	12,644	1,904	1,804	3,708
London and South Eastern	213	55,222	29,763	49.7	64,959	12,709	6,754	19,463
Southern	17	1,798	1,023	1.7	2,213	356	272	627
South Western	15	5,677	3,288	5.5	6,692	1,269	701	1,971
Midland	21	7,344	4,241	7.1	9,690	1,997	802	2,800
North Western	26	11,138	6,871	11.5	17,534	3,709	1,349	5,058
Total England	384	102,933	56,904	95.1	127,737	24,587	12,642	37,229
Wales	11	4,400	2,048	3.4	4,298	777	332	1,109
Scotland	11	1,999	881	1.5	1,826	297	150	447
Great Britain	406	109,332	59,832	100.0	133,861	25,661	13,125	38,785

B. Government Departments

No analysis by standard regions for Government Departments can be given.

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

A. Private firms

TABLE 6

	Establish- No.	Gross output £'000	Sales of charac- teristic products £'000	Net output £'000	Persons employed No.	Remuneration			Net output per person employed £
						Wages £'000	Salaries £'000	Total £'000	
Specialist producers of									
Telegraph and telephone apparatus	78	37,054	24,461	23,414	47,969	9,935	4,642	14,577	488
Radio apparatus (except valves) and gramophones	204	53,289	44,177	25,768	58,953	10,675	6,609	17,284	437
Valves (including cathode ray tubes)	23	8,017	4,860	4,382	12,855	2,390	931	3,321	341
Electric lamps	44	8,531	7,524	4,779	10,060	1,928	638	2,566	475
Remainder of the trade	57	2,440		1,488	4,024	733	304	1,037	370
Total	406	109,332		59,832	133,861	25,661	13,125	38,785	447

B. Government Departments

No specialisation in the Government section of this trade was distinguished.

Total make of certain products

Larger establishments

A. Private firms

TABLE 7

	Returned in this trade				Returned in all trades		
	1948		1937		1948		1935
	Quantity	Entries	Quantity	Quantity	Quantity	Entries	Quantity
Valves, electronic (other than X-ray valves)	Thous.	No.	Thous.	Thous.	Thous.	No.	Thous.
Transmitting and industrial, over 50 watts anode dissipation	45	..			47	6	
Other electronic valves, including rectifying valves and stabilising tubes	23,678	..	12,034	12,661	24,419	14	12,808
Cathode ray tubes	102	..	..	..	102	8	..

B. Government Departments

None of the products listed above was returned as made in Government establishments.

Sales (or production) of the principal products of the trade,
including sales (or production) of these products by
establishments classified to other trades

Larger establishments

A. Private firms

TABLE 8

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000	Quantity	Value £'000
Radio, telecommunication and electronic apparatus							
Radio transmitters for public broadcasting, complete	..	494	..				
Radio communication and navigational aids (including radar equipment), complete	..	8,422	51	..	987	..	737 (a)
Radio receiving sets, domestic, other than radiograms, complete	Th.sets	Th.valves		Th.sets		Th.sets	
Mains	1,071	5,422	56				
Battery	248	1,023	33				
Other, including car radio	86	456	17	1,798	11,325	1,724	10,463
Unclassified	6	..	86				
Radiograms, complete	130	715	44	120	1,954	126	1,766
Television receiving sets							
Visual only	7.3	407	..				
Visual and television sound units, combined	71.1	2,899*	32				
Visual, television sound and radio receiving units, combined, and visual, television sound and radiogram units, combined	3.1	222	6	2.6	136	..	(b)
Unclassified	..	38	..				
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets	Th.sets	Th.valves					
51.1	252.8	390					
24.1	..	84					
..	..	113	28				
Television transmitters, complete	..	351	..		63(c)	..	(b)

TABLE 8 (contd.)

	1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Quantity	Value	Quantity	Value
Radio, telecommunication and electronic apparatus (contd.)		£'000	No.		£'000	£'000
Telegraph and telephone equipment, other than testing equipment						
Complete installations	..	11,620	20			
Telephone instruments, complete, sold separately	Thous.					
Hand microphones	929	2,846	15			
	..	666				
Other	220	1,130	20			
	..	305				
Telephone instruments and parts not separately distinguished	..	665	21	..	8,774 (d)	..
Other equipment, including parts	..	6,044	47			..
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	..	3,878	23			..
Industrial radio frequency equipment (valve type) including heating and electronic control equipment	..	360	25	..	(b)	..
Signalling apparatus, including traffic signals	..	1,077	25	..	553	..
Sound reproducing apparatus (electrical)				Thous.		Thous.
Complete						
For sound films	5.1	1,190	..	1.3	230	0.7
						..
For public address	11.5	321	36			
	..	275				
For industrial relay	..	316	13			
Radio loudspeakers, sold separately	1,846.4	1,493	41	1,003.5	518	748.3
	..	255				
Gramophones with electrical amplification	22.9	391	19			
Other descriptions, excluding record players	30.0	153	18			
	..	97				
Unclassified	..	62	..	-	-	-

TABLE 8 (contd.)

	1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity
Radio, telecommunication and electronic apparatus (contd.)	Thous.	£'000	No.	Thous.	£'000	Thous.
Sound reproducing apparatus (electrical) (contd.)						
Parts	..	860	45	..	117	..
Electrical sound recording apparatus	..	509	18	..	83(e)	..
Radio testing equipment, not elsewhere specified	..	616	27			
Telegraph and telephone testing equipment, not elsewhere specified	..	895	21	..	(b)	..
Transformers, other than power and instrument transformers (f)	632.5	155(e)	12			
	..	85(e)				
Components and parts, not elsewhere specified	..	8,215	188	..	2,227	..
Valves, electronic, other than X-ray valves, sold separately (f)						
Complete						
Transmitting and industrial	2,909	1,628	8			
Other electronic valves, including rectifying valves and stabilising tubes	19,086	3,844	16	11,143	1,983	11,777
Parts	..	218	17	..	85	..
Cathode ray tubes						
Complete	105.4	444	8			
Parts	..	12	5	..	(b)	..
Photo-electric cells and parts	..	51	7			
Unclassified radio, etc. apparatus	..	149	17	-	-	-
Resistors, sold separately (e)						
Fixed	28,467	554	35	-	-	-
	..	485				
Variable	1,942	370	29	-	-	-
	..	204				
Gramophones and phonographs without electrical amplification, including parts and accessories (e)						
Acoustic gramophones, complete	64.0	360	..	107.6	313	93.6
Record players	50.7	325	14	..	(b)	..
Motors and other parts and accessories (excluding records)	..	1,965	18	..	423	..

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Electric light bulbs, etc.	Thous.	£'000	No.	Thous.	£'000	Thous.	£'000
Complete, ready for use							
Discharge lamps							
Up to and including 5 watts, not exceeding 300 volts	561	45	5				
Fluorescent tubular lamps of all types, other than high tension types for advertising purposes	3,533	1,494	23	..	(b)	..	(b)
Other discharge lamps not exceeding 300 volts	366	566	7				
Motor vehicle types	32,429	1,203	14	16,286	415(g)	12,495	293(g)
Flashlight case types, radio panel and cycle dynamo bulbs	32,998	279	8				
Other bulbs not exceeding 24 volts excluding flash bulbs for photographic and other purposes	18,534	757	16	10,760	94(g)	10,449	96(g)
Other bulbs exceeding 24 volts; and flash bulbs for photographic and other purposes	136,350	6,114	28	106,379	3,953(h)	81,263	3,100(h)
Parts (e)	..	998	6	-	-	-	-
Electrical signs							
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting purposes	..	164(e)	14	..	601	..	480
Other	..	39(e)	7	..	127	..	98
Waste products (other than scrap metals)	..	48	46	..	(b)	..	(b)
Total goods		100,069	..		34,961		28,898
Contract and other work carried out in Great Britain (1)							
Electrical contract work done as main contractors							
Telegraph and telephone lines and works	2,859		9				391
Installation of radio and telecommunication apparatus and appliances	3,450		22		772(j)		388
Repair and maintenance work for customers	1,233		82		577		107
Research and development work (e)	603		10		-		-
Total contract and other work	8,145		..				
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work	4,692		..		1,349		886

TABLE 8 (contd.)

	1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity
		£'000	No.		£'000	£'000
Total contract and other work exclusive of the value of goods made by firms and used in the work		3,453	..		1,349	886
Total principal products of this trade		103,522	..		36,310	29,784
Less sales (or production) in other trades		13,393	..		4,334	4,810
Total principal products of this trade sold or made by establishments in the trade		90,129	296		31,976	24,974

B. Government Departments

TABLE 8 (contd.)

	1948 (k) Sales		1935(l) Production
	Value	Entries	Value
Radio, telecommunication and electronic apparatus	£'000	No.	£'000
Telegraph and telephone equipment, other than testing equipment	187	2	
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	395	2	
Signalling apparatus, including traffic signals	46	1	129
Telegraph and telephone testing equipment	79	2	
Components and parts, not elsewhere specified	115	2	
Total goods	823	..	129
Contract and other work carried out in Great Britain			
Electrical contract work done as main contractors			
Telegraph and telephone lines and works	10,331	3	3,529
Installation of radio and telecommunication apparatus and appliances	10,071	4	2,703
Repair and maintenance work for customers	20,948	8	5,194
Total contract and other work	41,399	..	11,426
Total	42,223	8	11,555

(a) Including television apparatus.

(b) Not recorded separately.

(c) Including parts of television transmitters and receivers.

(d) Described as "Telegraph and telephone apparatus".

(e) So far as recorded separately.

(f) For power transformers and instrument transformers, and X-ray valves and tubes, see the Electrical Engineering (General) trade (Volume 4, Trade K).

(g) Described as bulbs under 20 volts.

(h) Described as bulbs of 20 volts and over.

(1) The values (amounts charged) shown for the different classes of work done are, for 1948, inclusive of all goods or materials used, but for 1937 and 1935 goods made by the firms and used by them in the work are excluded. The goods made and so used are included as output against the appropriate headings in Tables 8 and 10, for each of the three years.

(j) All electrical contract work returned by firms in the trade; the comparable figure for 1935 is £515,000.

(k) Great Britain only.

(l) United Kingdom.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger Establishments

A. Private firms

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Radio, telecommunication and electronic apparatus							
Radio transmitters for public broadcasting, complete	..	8	..				
Radio communication and navigational aids (including radar equipment), complete	..	1,834	18	..	65	..	13
Domestic radio receiving sets; radiograms; combined visual and television sound receiving units; transformers, other than power and instrument transformer; components and parts, not elsewhere specified, for radio, telecommunication and electronic apparatus	..	1,423	76	..	799	..	944
	Th. sets						
	Th. valves						
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets	0.1	1	..	-	-	-	-
Television transmitters, complete	..	304	..	-	-	-	-
Telegraph and telephone equipment, other than testing equipment							
Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	..	1,532	11				
Telephone instruments complete, sold separately	Thous. 1	3	9				
	..	579					
Telephone instruments and parts not separately distinguished	..	665	21	..	1,162	..	1,095
Other equipment, including parts	..	782	21				

TABLE 9 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Radio, telecommunication and electronic apparatus (contd.)							
Industrial radio frequency equipment (valve type), including heating and electronic control equipment	..	152	8				
Signalling apparatus, including traffic signals	..	571	11	..	249	..	182
Sound reproducing apparatus (electrical)	Thous.			Thous.			
Complete							
For sound films and public address	2.6	336	5				
	..	43					
Radio loudspeakers, sold separately	7.5	4	..	1.2	80	..	327
Other descriptions, excluding record players	..	21	6				
Unclassified; and electrical sound recording apparatus	..	73	7	-	-	-	-
Parts	..	127	14	..	49	-	-
Radio testing equipment, not elsewhere specified	..	14	..	-	-	-	-
Telegraph and telephone testing equipment, not elsewhere specified	..	32	6	-	-	-	-
Valves, electronic, other than X-ray valves, sold separately							
Complete							
Transmitting and industrial and other electronic valves, including rectifying valves and stabilising tubes	393	166	..	..	80	..	23
Parts	..	118	7				

TABLE 9 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	£'000	No.	Thous.	£'000	Thous.	£'000
Radio, telecommunication and electronic apparatus (contd.)							
Cathode ray tubes							
Complete	0.1	1	..	-	-	-	-
Parts	..	12	5	-	-	-	-
Photo-electric cells and parts	..	1	..	-	-	-	-
Unclassified radio, etc. apparatus	..	149	17	-	-	-	-
Resistors							
Fixed	25,044	325	25	-	-	-	-
	..	141					
Variable	1,096	191	18	-	-	-	-
	..	21					
Gramophones and phonographs without electrical amplification, including parts and accessories							
Acoustic gramophones, complete	-	-	-	94.4	283	86.0	265
Motors and other parts and accessories (excluding records)	..	316	7	..	47	..	53
Electric light bulbs, etc.							
Complete, ready for use							
Discharge lamps							
Fluorescent tubular lamps of all types, other than high tension types for advertising purposes	1,596	661	7	-	-	-	-
Other discharge lamps not exceeding 300 volts	108	157	..	-	-	-	-
Motor vehicles types; flash-light case types, radio panel and cycle dynamo bulbs	28,316	709	6	35,568	1,371	25,345	971
Flash bulbs for photographic and other purposes, and other bulbs	30,168	1,334	7				

TABLE 9 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Electrical signs							
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting purposes	..	100	5	..	149	..	564
Other	..	7	..				
Total goods		12,898			4,334		4,437
Contract and other work carried out in Great Britain (a)							
Electrical contract work done as main contractors							
Telegraph and telephone lines and works		593	..		-		261
Installation of radio and telecommunication apparatus and appliances		93	..		-		112
Repair and maintenance work for customers		10	19		-		-
Total contract and other work done		696	..		-		373
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work		200	..		-		-
Total contract and other work exclusive of the value of goods made by firms and used in the work		496	..		-		373
Total goods made and contract and other work done		13,393	..		4,334		4,810

(a) The values shown for the different classes of work done are, for 1948, inclusive of all goods or materials used, but for 1937 and 1935 goods made by the firms and used by them in the work are excluded. The goods made and so used are included as output for each of the three years.

B. Government Departments

No sales of the principal products of this trade were recorded by Government establishments classified to other trades.

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	A. Private firms			B. Government Departments	
	1948(a)	1937(a)	1935(a)	1948(a)	1935(b)
Capacitors and parts	£'000 273	£'000 167	£'000 149	£'000 -	£'000 -
Electric lighting fittings and wiring accessories	1,531	48	55	-	-
Electric cooking apparatus	45	-	102	-	-
Electric heating apparatus	279	25	42	-	-
Electric irons	132	39	9	-	-
X-ray apparatus	176	-	-	-	-
Other electro-medical apparatus	132	4	5	-	-
Electrical machinery and plant	179	2,206	1,688	-	-
Other electrical goods and apparatus	7,133				
Scrap metals sold	594	182	79	27	184(c)
Other goods	3,165	455	270	132(d)	-
Total goods	13,640	3,126	2,399	159	184(c)
Contract and other work carried out in Great Britain (e)					
Electrical contract work done as main contractors					
Electric power and lighting lines and works				543	200
Other electrical contract work, excluding that on telegraph lines and works and the installation of radio and tele-communication apparatus and appliances	426	(f)	109	-	-
Electrical contract work done as sub-contractors				62	-
Other work done	397	154	3	192	-
Total contract and other work done	823				
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work	292	154	112	796	200
Total contract and other work exclusive of the value of goods made by firms and used in the work	531	154	112	796	200
Total goods and contract and other work done	14,171	3,280	2,511	955	384

- (a) Great Britain only.
 (b) United Kingdom.
 (c) Including sales of scrap metal by the Post Office Stores Department.
 (d) Described as "Concentrates, metallic residues, wastes, etc."
 (e) The values shown for the different classes of work done are, for 1948, inclusive of all goods or materials used, but for 1937 and 1935 goods made by the firms and used by them in the work are excluded. The goods made and so used are included as output for each of the three years.
 (f) Not recorded separately.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	A. Private firms		B. Government Departments	
	Sales	Percentage of total sales	Sales	Percentage of total sales
	£'000		£'000	
Sales (or transfers) to other organisations under the same control				
Productive works	2,992	3.1	-	-
Export sales organisations (including branches abroad)	3,986	4.2	-	-
Other wholesale or selling organisations	14,074	14.7	-	-
Retail shops, etc.	1,881	2.0	-	-
Total sales (or transfers) to other organisations under the same control	22,933	23.9	-	-
Sales to independent buyers				
Exports invoiced directly overseas	15,675	16.3	-	-
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	3,701	3.9	-	-
His Majesty's Government and Local Authorities (other than productive establishments)	14,957	15.6	823	83.7
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	12,819	13.3	-	-
Wholesalers, merchants and other agents for resale	10,808(a)	11.0	159	16.2
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	13,697	14.3	-	-
Other businesses (including farmers) and institutions of all kinds	1,421	1.5	-	-
Members of the public, including employees	216	0.2	-	-
Total sales to independent buyers	73,095	76.1	983	100.0
Total	96,027(b)	100.0	983(b)	100.0

- (a) Of this total £6,976,000 was recorded as divided between £1,212,000 for export and £5,764,000 for other sales.
 (b) This total represents the total shown in Table 23 (Private firms £104,300,000; Government Departments £43,178,000) less the total value of the contract and other work carried out (Private firms £8,272,000; Government Departments £42,195,000).

Production, exports and imports
of certain principal products (a)

TABLE 12

		Production (b) (c)	Exports (d)	Retained imports (e)
Radio, telecommunication and electronic apparatus (f)		£'000	£'000	£'000
Radio transmitters for public broadcasting, complete	1948	494	418	2
Radio communication and navigational aids (including radar equipment), complete	1948	8,422	2,265	216
Total radio transmitters for public broadcasting and radio communication and navigational aids, etc., complete	{ 1948 1937	8,916 987	2,682 257 (g)	219 21 (g)
		Th.sets	Th.sets	Th.sets
Radio receiving sets, domestic, other than radiograms, complete				
Mains	1948	1,071	242	-
Battery	1948	248	27	-
Other, including car radio	1948	86	12	-
Total radio receiving sets, domestic, other than radiograms, complete	{ 1948 1937	£'000 15,654 (h) 11,325	£'000 3,153 381 (i)	£'000 17 156 (i)
		Th.sets	Th.sets	Th.sets
Television receiving sets, complete	1948	82	-	-
Television transmitters, complete	1948	£'000 351	£'000 38	£'000 34
Telegraph and telephone equipment, other than testing equipment	1948	23,463	10,273	53
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	1948	4,274	1,213	1
Signalling apparatus, including traffic signals	1948	1,123	362	3
Telegraph and telephone testing equipment, not elsewhere specified	1948	974	66	9
Total telegraph and telephone equipment (including testing equipment), line apparatus for long distance communication, speech input equipment and signalling apparatus	{ 1948 1937	29,834 9,327	11,914 2,112	66 140
Industrial radio frequency equipment (valve type), including heating and electronic control equipment	1948	360	64	21

TABLE 12 (contd.)

		Production (b) (c)	Exports (d)	Retained imports (e)
		Thous.	Thous.	£'000
Radio, telecommunication and electronic apparatus (f) (contd.)				
Sound reproducing apparatus (electrical) other than cinematograph apparatus, record players and gramophones with electrical amplification				
Radio loudspeakers	1948	2,137 (j) £'000	304 £'000	23 (l)
Public address equipment, complete	1948	596	100 (k)	
Other descriptions, including parts	1948	1,427 (m)	142 (n)	
Radio testing equipment, not elsewhere specified	1948	616	115	8
Components and parts, not elsewhere specified	1948	6,330	2,864	130
Total radio testing equipment and components and parts, not elsewhere specified	{ 1948 1937	8,946 2,227	2,979 544	138 757
		Thous.	Thous.	Thous.
Valves, electronic, other than X-ray valves				
Complete				
Transmitting and industrial, over 50 watts anode dissipation	1948	47 (o)	11	2
Other electronic valves, including rectifying valves and stabilising tubes	1948	24,419 (o)	5,611	320
Total valves, electronic, other than X-ray valves, complete	{ 1948 1937	24,466 (o) 12,034 (p)	5,622 1,726	322 2,268
		£'000	£'000	£'000
Parts	{ 1948 1937	218 85	24 5	70 209
		Thous.	Thous.	Thous.
Cathode ray tubes				
Complete	1948	102 (o)	2	8
		£'000	£'000	£'000
Parts	1948	12	6	10

TABLE 12 (contd.)

		Production (b) (c)	Exports (d)	Retained imports (e)
		Thous.	Thous.	Thous.
Gramophones and phonographs, including parts and accessories				
Acoustic gramophones, complete	{ 1948 1937	64 108	51 71	- 4
Radiograms, complete	1948	130	7	-
Gramophones with electrical amplification	1948	23	1	(q)
Record players	1948	51 £'000	18 £'000	£'000
Motors and other parts and accessories (excluding records)	1948	1,985	576	6
Total gramophones and phonographs and parts and accessories thereof, except valves and records	{ 1948 1937	7,243(r) (s) 2,690 (s)	1,306 (r) 499	9 (t) 80
Electric light bulbs, etc.				
Complete, ready for use				
Discharge lamps for lighting purposes		Thous.	Thous.	Thous.
Up to and including 5 watts, not exceeding 300 volts	1948	561	37	
Fluorescent tubular lamps of all types other than high tension types for advertising purposes	1948	3,533	410	7
Other discharge lamps not exceeding 300 volts	1948	366	225	
Motor vehicle types (u)	{ 1948 1937	32,429 16,286	3,232 (v) 1,121	935 (v) 7,913
Other descriptions				
Flashlight case types, radio panel and cycle dynamo bulbs	1948	32,998	5,604 (v)	730 (v)
Other bulbs not exceeding 24 volts, excluding flash bulbs for photographic and other purposes	1948	18,534	1,653	1,024 (w)
Total flashlight case types, radio panel and cycle dynamo bulbs and other bulbs not exceeding 24 volts, excluding flash bulbs for photographic and other purposes (x)	{ 1948 1937	51,532 10,780	7,457 4,222	1,753 (w) 47,064

TABLE 12 (contd.)

		Production (b) (c)	Exports (d)	Retained imports (e)
		Thous.	Thous.	Thous.
Electric light bulbs, etc. (contd.)				
Complete, ready for use (contd.)				
Other descriptions (contd.)				
Other bulbs exceeding 24 volts and flash bulbs for photographic and other purposes (y)	{ 1948 1937	136,350 106,379	22,434 14,946	383 (z) 7,036
		£'000	£'000	£'000
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting purposes	1948	184(aa)	16	5

- (a) Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Sales in 1948 and production for sale in 1937.
- (c) Including sales (or production) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) The overseas trade figures are exclusive of valves and cathode ray tubes incorporated in apparatus.
- (g) Transmitting and combined transmitting and receiving apparatus, excluding valves.
- (h) Including £462,000 recorded as unclassified sales.
- (i) Receiving sets of all types other than radiograms.
- (j) Partly estimated.
- (k) Including parts.
- (l) Including gramophones with electrical amplification and parts thereof.
- (m) Including sound reproducing apparatus (electrical) for industrial relay and parts of cinematograph sound reproducing apparatus and of gramophones with electrical amplification.
- (n) Including parts of gramophones with electrical amplification.
- (o) Production.
- (p) Production by establishments classified to the Radio and Telecommunications Trade only.
- (q) Included with sound reproducing apparatus.
- (r) Excluding parts of gramophones with electrical amplification.
- (s) Including valves incorporated in complete gramophones, etc.
- (t) Excluding gramophones with electrical amplification and parts thereof.
- (u) The production for sale and the overseas trade figures for 1937 relate to motor vehicle bulbs under 20 volts.
- (v) Bulbs not exceeding 24 volts.
- (w) Including flash bulbs for photographic and other purposes not exceeding 24 volts.
- (x) The production for sale and the overseas trade figures for 1937 relate to bulbs under 20 volts other than for motor vehicles.
- (y) The production for sale and the overseas trade figures for 1937 relate to bulbs of 20 volts and over.
- (z) Excluding flash bulbs for photographic and other purposes not exceeding 24 volts.
- (aa) So far as recorded separately.

Purchased materials and fuel

Larger establishments

A. Private firms

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials						
Iron and steel						
Bars and rods						
Alloy steel	11.5	124	120.5	149	..	(a)
Iron and non-alloy steel	81.6	146				
Castings and forgings of alloy steel, in the rough	0.3	1	57.1	85 (c)	4.5	48 (b)
Iron castings, in the rough	..	2				
Iron castings, in the rough	27.8	64	..	..	32.6	47 (d)
Angles, shapes and sections of iron and non-alloy steel	44.3	68				
Wire of iron and non-alloy steel	11.6	37	70.2	91 (e)	23.6	15 (f)
Plates and sheets of iron and non-alloy steel	218.4	438	305.8	363 (e)	216.2	215 (g)
Hoop and strip (including tape) of iron and non-alloy steel	116.8	230	36.9	44 (f)		
Sheets and strip of alloy steel	15.1	72			..	(a)
Other descriptions, except finished parts			..	(a)		
Alloy steel	3.5	15				
Iron and non-alloy steel	..	2				
Unclassified						
Alloy steel	..	138	-	-	-	-
Iron and non-alloy steel	..	538	-	-	-	-

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials (contd.)						
Aluminium and aluminium alloys						
Plates, sheets, strip and circles	29.9	206	..	(a)	..	(a)
Castings and forgings, rough dressed	15.3	134				
Foil	2.5	51				
Other descriptions, except finished parts	..	181				
Unclassified	..	201				
Brass (including all alloys of copper other than nickel alloys)						
Plates, sheets and strip	81.0	658	63.7	253		
Castings	3.3	43	5.7	26	94.3	297 (h)
Other descriptions, except finished parts	36.1	269	47.7	167		
Unclassified	..	429	-	-		
Copper	170.6	1,608	149.7	667	131.0	501
Lead and alloys of lead	201.7	1,000	257.4	290 (i)	208.4	184 (j)
Zinc and alloys of zinc	7.5	41	..	(a)	..	(a)
Porcelain	0.2	19	3.2	28	2.6	26
Other ceramics	1.5	94	..	(a)	..	(a)

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials (contd.)						
Paper (excluding packing and wrapping)	36.7	317	24.3 ..	74 14	27.3	68
Rubber						
Tubing	0.3 ..	14 57	2.8	30	3.6	30
Other descriptions	2.0 ..	29 25				
Synthetic resins						
Lump and powder, including moulding powder	17.7	189	23.1	91	33.7	90
All other forms	6.5 ..	154 45	6.6	107	3.6	40
Batteries, complete	Th. cells					
High tension	2,167 ..	33 7				
Low tension	520 ..	23 5				
Unclassified, including combined high tension and low tension	..	13				
Magnets, permanent	Thous. 12,295	490				
Loudspeakers	1,216	677				
Pickups for radiograms	507	234				
Valves, electronic, other than X-ray valves						
Complete						
Transmitting and industrial						
Not exceeding 50 watts anode dissipation	1,394	317	..	5,348(k)	..	4,191(k)
Over 50 watts anode dissipation	2	6				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Thous.	£'000	Thous.	£'000	Thous.	£'000
Materials (contd.)						
Valves, electronic, other than X-ray valves (contd.)						
Complete (contd.)						
Other electronic valves including rectifying valves and stabilising tubes	9,105	1,798				
Unclassified	..	97				
Parts	..	272				
Cathode ray tubes, complete	90	389				
Radio and television cabinets						
Of wood	758	2,306				
Of plastic materials	670	501				
Unclassified	..	567				
Radio and television parts and accessories, not elsewhere specified	..	6,148				
Fractional horse-power motors						
Alternating current						
	Thous.	Th.h.p.				
Not exceeding $\frac{1}{3}$ h.p.	7 5	0.9 ..	45 16			
Over $\frac{1}{3}$ but under 1 h.p.	3	..	28			
Direct current and universal (A.C. or D.C.)				29	35	.. (a)
Not exceeding $\frac{1}{3}$ h.p.	16 1	0.6 ..	30 6			
Over $\frac{1}{3}$ but under 1 h.p.	-	..	2			
Unclassified	..	..	39			
Packing materials	..	2,031	..	522	..	(a)

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.cwts.	£'000		£'000		£'000
Materials (contd.)						
Glass						
Rod and tube	27.5	359				
	..	217				
Blown	33.3	426				
	..	664				
Other descriptions	3.2	39				
	..	47				
Unclassified	..	190				
Mica						
Block and splittings	1.0	40				
	..	21				
Built-up ("Micanite")	0.1	10				
	..	63				
Unclassified	..	33				
Paint, enamel and varnish (1)	13.5	109				
	Th.galls.	66				
	55.9	74				
	..	74				
Cotton yarn and thread	Th.lbs.	252				
	801.6					
Silk yarn, thread and cloth	59.7	26	..	7,322	..	6,787(m)
	..	15				
Rayon, nylon, etc., yarn, thread and cloth	71.5	28				
	..	9				
Insulated wires	..	1,880				
Timber (excluding timber used for making into packing cases, etc., or for repairing returnable cases)	Th.cu.ft.					
Hardwood	298	145				
Softwood	Standards	64				
	1,335					
Plywood	Th.sq.ft.	229				
	3,958					
Veneers	4,498	84				
Unclassified	..	13				
Purchased components, not elsewhere specified	..	11,157				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
		£'000		£'000		£'000
Materials (contd.)						
Replacement parts for firms' own machinery	..	337				
Consumable tools bought as replacement	..	486				
All other purchased materials	..	6,353				
Unclassified purchased materials	..	74	-	-	-	-
Fuel and electricity	Th.tons		Th.tons		Th.tons	
Coal	85.9	251	71.3	82	65.2	65
Coke	27.1	107	11.9	21	9.1	14
Electricity purchased (n)	Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)	
From public supply	151,231	697	71,357	225	54,298	179
From other sources	151	1				
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and derv. fuel	Th.galls.		Th.galls.		Th.galls.	
Used for road vehicles	809	81	..	(a)	..	(a)
Used for other power purposes	86	4				
Other oil fuel (including creosote/pitch mixtures)	3,366	124	970	17(0)	898	13(0)
Gas purchased (p)	Th.therms 5,645 Th.cu.ft. 62,914	248	..	104	..	(a)
All other purchased	..	13				
Unclassified purchased fuel and electricity	..	9	-	-	-	-
Unclassified purchased materials and fuel	..	163	-	-	-	-
Total		49,254		16,204		12,810

B. Government Departments

TABLE 13 (contd.)

	1948 (q)		1935 (r)	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Fuel and electricity				
Coal	1.6	5(1)	1.8	1
	..	1		
Coke	0.5	2(1)	0.2	-
	..	1		
	Th. B. T. U. (kw. hrs.)		Th. B. T. U. (kw. hrs.)	
Electricity purchased from public supply	1,555	6(1)	611	2
	..	2		
All other purchased materials and fuel	..	10,717	..	3,414
Total		10,734		3,417

- (a) Not recorded separately.
 (b) Including non-alloy steel and not described as "in the rough".
 (c) Described as "Castings and forgings, of iron and steel".
 (d) Not described as "in the rough".
 (e) Including alloy steel.
 (f) Steel tape only in 1937; steel wire and tape in 1935.
 (g) Steel (including alloy steel) plates and sheets.
 (h) Described as "Brass in all forms".
 (i) Described as "Lead, pig and sheet".
 (j) Described as "Lead in all forms".
 (k) Described as "Wireless parts and accessories".
 (l) So far as recorded separately.
 (m) Including fuel not specified separately.
 (n) The total quantity of electricity consumed in 1948 was 169,742,000 B.T. units including 18,361,000 generated in the same works.
 (o) Described as "Heavy fuel oil".
 (p) Including gas obtained from other works under the same ownership.
 (q) Great Britain only.
 (r) United Kingdom.

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

A. Private firms

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
		£'000		£'000
Finished products	..	9,927	..	14,517
Work in progress		17,065		17,850
Total finished products and work in progress		26,992		32,367
Materials and fuel	Th. cwts.		Th. cwts.	
Alloy steel in all forms, except finished parts	27.9	135	25.2	151
	..	18		
Iron and non-alloy steel in all forms, except finished parts	309.6	574	350.6	695
	..	100	..	89
Brass in all forms, except finished parts	92.5	706	95.7	832
Copper in all forms, except finished parts	62.5	600	62.7	622
Lead and alloys of lead in all forms	56.6	218	44.6	228
Other descriptions of materials and fuel	..	10,241	..	10,785
Unclassified materials and fuel	..	1,960	..	1,861
Total materials and fuel		14,551		15,280

B. Government Departments

TABLE 14 (contd.)

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
		£'000		£'000
Finished products	..	587	..	445
Work in progress		560		843
Total finished products and work in progress		1,146		1,289
Materials and fuel	..	583	..	659

Employment and remuneration (a)

Larger establishments

A. Private firms

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	2,871	6,191	4,093	722	777	565	3,593	6,968	4,658
All ages	51,286	33,840	25,576	21,534	10,345	7,887	72,820	44,185	33,463
Females									
Under 18	2,850	7,607	5,853	1,280	1,300	897	4,130	8,907	6,750
All ages	49,368	32,299	28,309	11,655	4,899	3,957	61,023	37,198	32,266
Total									
Under 18	5,721	13,798	9,946	2,002	2,077	1,462	7,723	15,875	11,408
All ages	100,654 (c)	66,139	53,885	33,189 (d)	15,244	11,844	133,843 (d) (e) (f)	81,383	65,729
Total remuneration	£'000			£'000			£'000		
	25,661	..	..	13,125	..	..	38,785	..	..

B. Government Departments

TABLE 15 (contd.)

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948 (g)	1935 (h)	1948 (g)	1935 (h)	1948 (g)	1935 (h)
Males						
Under 18	2,197	801	76	239	2,273	1,040
All ages	54,942	29,506	7,470	5,331	62,412	34,837
Females						
Under 18	39	91	254	55	293	146
All ages	931	296	3,848	1,059	4,779	1,355
Total						
Under 18	2,236	892	330	294	2,566	1,186
All ages	55,873 (c)	29,802	11,318	6,390	67,191 (e) (f)	36,192
Total remuneration	£'000		£'000		£'000	
	18,776	..	5,452	..	24,228	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

A. Private firms		B. Government Departments	
Canteen workers	117 males	1,415 females	1 male
Other workers	273 males	240 females	13 females
			- males
			- females

- (b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.
(c) Including operatives employed on outside work of erection, fitting, etc.: 2,789 by private firms, and 52,596 by Government Departments.
(d) There were, in addition, 18 working proprietors (16 males and 2 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.
(e) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £997,000 in the case of private firms and £562,000 in the case of Government establishments.
(f) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	A. Private firms		B. Government Departments	
	Operatives	Administrative, technical and clerical employees	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	319		-	
Maintenance and repair of establishments' buildings, but not plant	548		-	
Research work not directly connected with current production however charged	581	1,754	361	224

- (g) Great Britain only.
(h) United Kingdom.

In addition to the employees in the above table the private firms in this trade employed 2 male and 108 female outworkers and the Government establishments 1 male and 105 female outworkers in 1948, the amounts paid to them being £20,000 and £5,000 respectively. Similar information is not available for 1937 and 1935.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

A. Private Firms

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				Year
			First quarter	Second quarter	Third quarter	Fourth quarter	
Wages and salaries of	£'000	£'000					
Operatives	25,661	12,676	24.6	24.7	23.6	27.2	100.0
Administrative, technical and clerical employees	13,125	6,938	24.2	24.5	24.7	26.6	100.0
Total	38,785	19,614	24.4	24.6	24.0	27.0	100.0

B. Government Departments

TABLE 16 (contd.)

	Amount paid by all establishments	Establishments making returns for the year ended 31st March, 1949					
		Amount paid	Percentage of annual remuneration paid in				Year
			Quarter ending 30th June 1948	Quarter ending 30th September, 1948	Quarter ending 31st December, 1948	Quarter ending 31st March, 1949	
Wages and salaries of	£'000	£'000					
Operatives	18,776	18,776	23.7	24.2	26.4	25.8	100.0
Administrative, technical and clerical employees	5,452	5,452	24.2	24.1	26.2	25.4	100.0
Total	24,228	24,228	23.8	24.1	26.3	25.7	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid by private firms for work done on materials given out was £955,000, and by Government departments £9,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	A. Private firms	B. Government Departments
	Amount paid	
	£'000	£'000
Repair and maintenance		
Of buildings	238	7
Of plant, machinery and vehicles	418	15
Unclassified	441	-
Hire of plant, machinery and vehicles	118	10
Advertising and market research		
Advertising in newspapers, magazines and periodicals	258	-
Other advertising services (poster display, despatch of circulars, etc.) and market research	224	-
Unclassified	475	-
Payments made for research work		
To research associations	59	-
To universities, institutions, academic bodies and similar agencies	5	-
To other commercial concerns	529	-
Postage, telephone, telegrams and cables	348	6
Commercial insurance premiums	458	-
Rates (excluding water rates) payable in the year	184	179

ENGINEERING, SHIPBUILDING AND ELECTRICAL GOODS
Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

A. Private firms (a)

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	2,453	225	149
Vehicles	149	34	48
Total	2,602	259	197

(a) Similar information in respect of Government establishments in this trade is not available.

Capital expenditure on building work and changes in
occupation of buildings and land, 1948

Larger establishments in Great Britain

A. Private firms (a)

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (b)		435
2. Existing buildings and land (c)		
(1) Capital cost of freeholds bought	416	
Estimated capital value of		
(11) Rented property newly occupied in the year (d)	259	
(111) Leasehold buildings and land newly occupied in the year	220	
Total of heading 2		895
Total of headings 1 and 2		1,330
3. Existing buildings and land relinquished (e)		
(1) Selling values of freeholds sold	43	
(11) Estimated value of other properties relinquished	83	
Total of heading 3		126
4. Headings 1 and 2 less heading 3		1,204

- (a) Similar information in respect of Government establishments in this trade is not available.
(b) Excluding site value which, where appropriate, is included in heading 2 (1).
(c) The figures do not reflect changes in ownership of previously occupied land and buildings.
(d) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
(e) Including property destroyed or abandoned.

RADIO AND TELECOMMUNICATIONS COUNTRY TABLES

1948

Summary

Larger establishments

TABLE 21

	A. Private firms				B. Government Departments			
	England	Wales	Scotland	Great Britain	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	102,933	4,400	1,999	109,332	37,350	1,815	4,155	43,320
Cost of materials and fuel used	45,108	2,326	1,111	48,545	8,999	529	1,129	10,657
Payment for work done on materials given out	922	27	7	955	9	-	-	9
Net output	56,904	2,048	881	59,832	28,342	1,286	3,026	32,654
Wages and salaries of persons employed	37,229	1,109	447	38,785	20,982	993	2,253	24,228
	No.	No.	No.	No.	No.	No.	No.	No.
Average number of persons employed (a)	127,737	4,298	1,826	133,861	58,068	2,832	6,291	67,191
	£	£	£	£	£	£	£	£
Net output per person employed (a)	445	476	482	447	488	454	481	486
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Finished products and work in progress	31,148	978	240	32,367	1,260	-	28	1,289
Materials and fuel	14,341	697	222	15,260	655	-	5	659
	No.	No.	No.	No.	No.	No.	No.	No.
Number of establishments	384	11	11	406	12	1	2	15

(a) Excluding outworkers.

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Output of establishment in this trade								
Total value of sales (see Table 23)	98,028	4,341	1,931	104,300	37,220	1,815	4,143	43,178
Adjustment for changes in stocks and work in progress	+ 5,228	+ 70	+ 78	+ 5,375	+ 131	-	+ 12	+ 143
	103,256	4,411	2,008	109,675	37,350	1,815	4,155	43,320
Less payment for transport by other firms	323	11	9	343	-	-	-	-
Gross output (production)	102,933	4,400	1,999	109,332	37,350	1,815	4,155	43,320
Materials and fuel used in establishments in this trade								
Purchases (see Table 24)	45,885	2,189	1,180	49,254	9,073	529	1,132	10,734
Adjustment for changes in stocks	- 777	+ 137	- 68	- 709	- 74	-	- 3	- 77
Materials and fuel used	45,108	2,326	1,111	48,545	8,999	529	1,129	10,657

Summary

Small firms

TABLE 22

	A. Private firms				B. Government Departments
	England	Wales	Scotland	Great Britain	Great Britain
Number of returns	131	4	4	139	-
Average number of persons employed(a)					
Males	602	17	20	639	-
Females	172	2	5	179	-
Total	774	19	25	818	-

(a) Including working proprietors.

Sales in the trade

Larger establishments

A. Private firms

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products		£'000		£'000		£'000
Radio, telecommunication and electronic apparatus						
Radio transmitters for public broadcasting, complete	..	(a)	..	(a)	..	486
Radio communication and navigational aids (including radar equipment, complete)	..	(a)	..	(a)	..	6,588
Domestic radio receiving sets; radiograms; combined visual and television sound receiving units; transformers, other than power and instrument transformers; components and parts, not elsewhere specified for radio, telecommunication and electronic apparatus	..	28,110	..	1,679	..	29,788
Television receiving sets	Th. sets				Th. sets	
Visual only	7.3	407	-	-	7.3	407
Visual, television sound and radio receiving units, combined; and visual, television sound and radio-gram units, combined	3.1	222	-	-	3.1	222
Unclassified	..	38	-	-	..	38

TABLE 23 (contd.)

Principal products (contd.)	England and Wales			Scotland		Great Britain		
	Quantity		Value £'000	Quantity	Value £'000	Quantity		Value £'000
	Th. sets	Th. valves				Th. sets	Th. valves	
Radio, telecommunication and electronic apparatus (contd.)								
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets	50.9 24.1 ..	251.8	388 84 113	-	-	50.9 24.1 ..	251.8	388 84 113
Television transmitters, complete	..	..	46	-	-	..	..	46
Telegraph and telephone equipment, other than testing equipment								
Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	..	..	(a)	..	(a)	..	..	13,966
Telephone instruments complete, sold separately	..	..	(a)	..	(a)	1,148 ..	Thous. ..	3,973 392
Other equipment, including parts	..	..	(a)	..	(a)	..	..	5,281
Industrial radio frequency equipment (valve type), including heating and electronic control equipment	..	..	(a)	..	(a)	..	..	208
Signalling apparatus, including traffic signals	..	..	(a)	..	(a)	..	..	506
Sound reproducing apparatus (electrical)								
Complete	Thous.							
For sound films and public address	14.1 ..	..	1,175 232	-	-	14.1 ..	..	1,175 232
For industrial relay	..	..	(a)	..	(a)	..	..	316
Radio loudspeakers, sold separately	..	..	(a)	..	(a)	1,838.9 ..	..	1,489 235
Gramophones with electrical amplification	..	..	(a)	..	(a)	22.9	..	391
Other descriptions, excluding record players	..	..	(a)	..	(a)	30.0 ..	..	149 77
Unclassified; and electrical sound recording apparatus	..	..	498	-	-	..	..	498
Parts	..	..	733	-	-	..	..	733

TABLE 23 (contd.)

Principal products (contd.)	England and Wales		Scotland		Great Britain	
	Quantity	Value £'000	Quantity	Value £'000	Quantity	Value £'000
Radio, telecommunication and electronic apparatus (contd.)						
Radio testing equipment, not elsewhere specified	..	602	-	-	..	602
Telegraph and telephone testing equipment, not elsewhere specified	..	863	-	-	..	863
Valves, electronic, other than X-ray valves, sold separately						
Complete						
Transmitting and industrial and other electronic valves, including rectifying valves and stabilising tubes	Thous. 21,602	5,305	-	-	Thous. 21,602	5,305
Parts	..	100	-	-	..	100
Cathode ray tubes, complete	105.3	443	-	-	105.3	443
Photo-electric cells and parts	..	50	-	-	..	50
Resistors, sold separately						
Fixed	3,423 ..	228 344	-	-	3,423 ..	228 344
Variable	845 ..	180 183	-	-	845 ..	180 183
Gramophones and phonographs without electrical amplification, including parts and accessories						
Acoustic gramophones, complete	64.0	360	-	-	64.0	360
Record players	50.7	325	-	-	50.7	325
Motors and other parts and accessories (excluding records)	..	(a)	..	(a)	..	1,648
Electric light bulbs, etc.						
Complete, ready for use						
Discharge lamps						
Up to and including 5 watts, not exceeding 300 volts	561	45	-	-	561	45
Fluorescent tubular lamps of all types other than high tension types for advertising purposes	..	(a)	..	(a)	1,937	833

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Thous.	£'000		£'000	Thous.	£'000
Principal products (contd.)						
Electric light bulbs, etc. (contd.)						
Complete, ready for use (contd.)						
Discharge lamps (contd.)						
Other discharge lamps not exceeding 300 volts	258	408	-	-	258	408
Motor vehicle types; flashlight case types, radio panel and cycle dynamo bulbs	37,111	773	-	-	37,111	773
Flash bulbs for photographic and other purposes, and other bulbs	..	(a)	..	(a)	124,716	5,537
Parts	..	998	-	-	..	998
Electrical signs						
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting purposes	..	(a)	..	(a)	..	83
Other	..	32	-	-	..	32
Waste products (other than scrap metals)	..	(a)	..	(a)	..	48
Total goods (principal products)		85,267		1,905		87,171
Contract and other work carried out in Great Britain (b)						
Electrical contract work done as main contractors						
Telegraph and telephone lines and works		2,266		-		2,266
Installation of radio and telecommunication apparatus and appliances		(a)		(a)		3,357

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
		£'000		£'000		£'000
Principal products (contd.)						
Contract and other work carried out in Great Britain (b) (contd.)						
Repair and maintenance work for customers		1,218		5		1,223
Research and development work		603		-		603
Total contract and other work		(a)		(a)		7,449
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work		(a)		(a)		4,492
Total contract and other work exclusive of the value of goods made by firms and used in the work		2,949		8		2,957
Total principal products		88,215		1,913		90,129
Other output						
Capacitors, complete and parts	..	273	-	-	..	273
Electric lighting fittings and wiring accessories	..	1,531	-	-	..	1,531
Electric cooking apparatus	..	45	-	-	..	45
Electric heating apparatus	..	279	-	-	..	279
Electric irons	..	132	-	-	..	132
X-ray apparatus	..	176	-	-	..	176
Other electro-medical apparatus	..	132	-	-	..	132
Electrical machinery and plant	..	179	-	-	..	179
Other electrical goods and apparatus	..	7,131	..	2	..	7,133
Scrap metals sold	..	588	..	6	..	594
Other goods	..	3,165	..	1	..	3,165
Total goods (other output)		13,632		8		13,640
Contract and other work carried out in Great Britain (b)						
Electrical contract work other than installation of radio and telecommunication apparatus and appliances, or on telegraph and telephone lines and works		423		2		426

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value £'000	Quantity	Value £'000	Quantity	Value £'000
Other output (contd.)						
Contract and other work carried out in Great Britain (b) (contd.)						
Other work done		389		8		397
Total contract and other work done		813		10		823
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work		291		1		292
Total contract and other work exclusive of the value of goods made by firms and used in the work		522		9		531
Total other output		14,154		17		14,171
Total principal products and other output		102,369		1,931		104,300

TABLE 23 (contd.)

B. Government Departments

	England and Wales		Scotland		Great Britain	
	Value £'000	Value £'000	Value £'000	Value £'000	Value £'000	Value £'000
Principal products						
Radio, telecommunication and electronic apparatus						
Telegraph and telephone equipment, other than testing equipment	187		-		187	
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	395		-		395	
Signalling apparatus, including traffic signals	46		-		46	
Telegraph and telephone testing equipment	79		-		79	
Components and parts, not elsewhere specified	115		-		115	
Total goods (principal products)	823		-		823	

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Value £'000	Value £'000	Value £'000	Value £'000	Value £'000	Value £'000
Principal products (contd.)						
Contract and other work carried out in Great Britain						
Electrical contract work done as main contractors						
Telegraph and telephone lines and works	9,259		1,122		10,381	
Installation of radio and telecommunication apparatus and appliances	9,025		1,046		10,071	
Repair and maintenance work for customers	19,051		1,897		20,948	
Total contract and other work	37,335		4,065		41,399	
Total principal products	38,158		4,065		42,223	
Other output						
Scrap metals sold	22		5		27	
Concentrates, metallic residues, wastes, etc.	125		7		132	
Total goods (other output)	148		12		159	
Contract and other work carried out in Great Britain						
Electrical contract work done as main contractors						
Electric power and lighting lines and works	494		49		543	
Other, not elsewhere specified	-		-		-	
Electrical contract work done as sub-contractors	62		-		62	
Other work done	173		19		192	
Total contract and other work exclusive of the value of goods made and used by Government establishments	729		67		796	
Total	39,035		4,143		43,178	

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

(b) Amount charged.

Purchased materials and fuel

Larger establishments

A. Private firms

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.cwts.	£'000		£'000	Th.cwts.	£'000
Materials						
Iron and steel						
Bars and rods						
Alloy steel	..	(a)	..	(a)	11.5	124
Iron and non-alloy steel	..	(a)	..	(a)	81.6	146
Castings and forgings of alloy steel, in the rough	0.3	1	-	-	0.3	1
	..	2			..	2
Iron castings, in the rough	..	(a)	..	(a)	27.8	64
					..	7
Angles, shapes and sections of iron and non-alloy steel	..	(a)	..	(a)	44.3	68
Wire of iron and non-alloy steel	..	(a)	..	(a)	11.6	37
Plates and sheets of iron and non-alloy steel	..	(a)	..	(a)	218.4	438
Hoop and strip (including tape) of iron and non-alloy steel	..	(a)	..	(a)	116.8	230
Sheets and strip of alloy steel	..	(a)	..	(a)	15.1	72
Other descriptions, except finished parts						
Alloy steel	3.5	15	-	-	3.5	15
	..	2			..	2
Iron and non-alloy steel	..	(a)	..	(a)	117.5	87
Unclassified						
Alloy steel	..	138	-	-	..	138
Iron and non-alloy steel	..	538	-	-	..	538

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.cwts.	£'000		£'000	Th.cwts.	£'000
Materials (contd.)						
Aluminium and aluminium alloys						
Plates, sheets, strip and circles	..	(a)	..	(a)	29.9	206
Castings and forgings, rough dressed	..	(a)	..	(a)	15.3	134
					..	26
Foil	..	(a)	..	(a)	2.5	51
Other descriptions, except finished parts	..	(a)	..	(a)	..	181
Unclassified	..	201	-	-	..	201
Brass (including all alloys of copper other than nickel alloys)						
Plates, sheets and strip	..	(a)	..	(a)	81.0	658
Castings	..	(a)	..	(a)	3.3	43
					..	9
Other descriptions, except finished parts	..	(a)	..	(a)	36.1	269
Unclassified	..	429	-	-	..	429
Copper	..	(a)	..	(a)	170.6	1,608
					..	78
Lead and alloys of lead	..	(a)	..	(a)	201.7	1,000
					..	19
	Th.cwts.					
Zinc and alloys of zinc	7.5	41	-	-	7.5	41
	..	16			..	16
Porcelain	..	(a)	..	(a)	0.2	19
					..	28
Other ceramics	..	(a)	..	(a)	1.5	94
					..	45
Paper (excluding packing and wrapping)	..	(a)	..	(a)	36.7	317

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000		£'000	Th. cwts.	£'000
Materials (contd.)						
Rubber						
Tubing	0.3	14	-	-	0.3	14
	..	57			..	57
Other descriptions	2.0	29	-	-	2.0	29
	..	25			..	25
Synthetic resins						
Lump and powder, including moulding powder	17.7	189	-	-	17.7	189
All other forms	6.5	154	-	-	6.5	154
	..	45			..	45
Batteries, complete	Th. cells				Th. cells	
High tension	2,187	33	-	-	2,187	33
	..	7			..	7
Low tension	..	(a)	..	(a)	520	23
					..	5
Unclassified, including combined high tension and low tension	..	13	-	-	..	13
Magnets, permanent	..	(a)	..	(a)	Thous. 12,295	490
Loudspeakers	..	(a)	..	(a)	1,216	677
Pickups for radiograms	..	(a)	..	(a)	507	234
Valves, electronic, other than X-ray valves						
Complete						
Transmitting and industrial						
Not exceeding 50 watts anode dissipation	..	(a)	..	(a)	1,394	317
Over 50 watts anode dissipation	Thous. 2	6	-	-	2	6
Other electronic valves including rectifying valves and stabilising tubes	..	(a)	..	(a)	9,105	1,798
Unclassified	..	85	..	12	..	97

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Thous.	£'000		£'000	Thous.	£'000
Materials (Contd.)						
Valves, electronic, other than X-ray valves (contd.)						
Parts	..	272	-	-	..	272
Cathode ray tubes, complete	90	389	-	-	90	389
Radio and television cabinets						
Of wood	..	(a)	..	(a)	758	2,306
Of plastic materials	..	(a)	..	(a)	670	501
Unclassified	..	567	-	-	..	567
Radio and television parts and accessories, not elsewhere specified	..	(a)	..	(a)	..	6,148
Fractional horse-power motors	Thous.	Th. h. p.			Thous.	Th. h. p.
Alternating current						
Not exceeding 1/3 h.p.	7	0.9	45	-	7	0.9
	5	..	16	-	5	..
Over 1/3 h.p. but under 1 h.p.	3	..	28	-	3	..
Direct current and universal (A.C. or D.C.)						
Not exceeding 1/3 h.p.	..	..	(a)	..	(a)	16
						0.6
Over 1/3 h.p. but under 1 h.p.	-	..	2	-	-	..
Unclassified	..	..	39	-	..	..
Packing materials	..	1,937	..	94	..	2,031
Glass	Th. cwts.		Th. cwts.		Th. cwts.	
Rod and tube	26.4	349	1.0	10	27.5	359
	..	217			..	217
Blown	..	(a)	..	(a)	33.3	426
					..	664
Other descriptions	..	(a)	..	(a)	3.2	39
					..	47
Unclassified	..	190	-	-	..	190

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000		£'000	Th. cwts.	£'000
Materials (contd.)						
Mica						
Block and splittings	..	(a)	..	(a)	1.0 ..	40 21
Built-up ("Micanite")	0.1 ..	10 63	-	-	0.1 ..	10 63
Unclassified	..	33	-	-	..	33
Paint, enamel and varnish	..	(a)	..	(a)	13.5 Th. galls. 55.9 ..	109 66 74
Cotton yarn and thread	..	(a)	..	(a)	Th. lbs. 801.6	252
Silk yarn, thread and cloth	..	(a)	..	(a)	59.7 ..	26 15
Rayon, nylon, etc., yarn, thread and cloth	..	(a)	..	(a)	71.5 ..	28 9
Insulated wires	..	(a)	..	(a)	..	1,880
Timber (excluding timber used for making into packing cases, etc., or for repairing returnable cases)	Th. cu. ft.				Th. cu. ft.	
Hardwood	298	145	-	-	298	145
Standards					Standards	
Softwood	1,335	64	-	-	1,335	64
Plywood	..	(a)	..	(a)	Th. sq. ft. 3,958	229
Veneers	4,498	84	-	-	4,498	84
Unclassified	..	13	-	-	..	13
Purchased components, not elsewhere specified	..	11,007	..	149	..	11,157
Replacement parts for firms' own machinery	..	(a)	..	(a)	..	337
Consumable tools bought as replacement	..	(a)	..	(a)	..	486

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials (contd.)						
All other purchased materials	..	6,237	..	116	..	6,353
Unclassified purchased materials	..	74	-	-	..	74
Fuel and electricity						
Coal	85.4	250	0.5	1	85.9	251
Coke	..	(a)	..	(a)	27.1	107
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	148,877	687	2,353	9	151,231	697
From other sources	151	1	-	-	151	1
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	804	80	5	1	809	81
Used for other power purposes	86	4	-	-	86	4
Other oil fuel (including creosote/pitch mixtures)	..	(a)	..	(a)	3,366	124
Gas purchased (c)	Th. therms 5,598 Th. cu. ft. 56,557	246	Th. therms 47 Th. cu. ft. 6,357	2	Th. therms 5,645 Th. cu. ft. 62,914	248
All other purchased fuel	..	12	..	-	..	13
Unclassified purchased fuel and electricity	..	9	-	-	..	9
Unclassified purchased materials and fuel	..	163	-	-	..	163
Total		48,074		1,180		49,254

B. Government Departments

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000		£'000	Th. tons	£'000
Fuel and electricity						
Coal	1.6	5	-	-	1.6	5
	..	1			..	1
Coke	0.5	2	..	-	0.5	2
	..	1			..	1
	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
Electricity purchased from public supply	1,530	6	24	-	1,555	6
	..	2			..	2
All other purchased materials and fuel	..	9,586	..	1,131	..	10,717
Total		9,602		1,132		10,734

(a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

(b) The total quantity of electricity consumed in England and Wales was 167,389,000 B.T. units, including 18,361,000 generated in the same works. The total quantity of electricity consumed in Scotland was 2,353,000 B.T. units; no consumption of electricity generated in the same works was recorded.

(c) Including gas obtained from other works under the same ownership.

Employment and remuneration

Larger establishments

A. Private firms

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	2,831	713	3,544	40	9	49	2,871	722	3,593
All ages	50,831	21,293	72,124	455	241	696	51,286	21,534	72,820
Females									
Under 18	2,744	1,261	4,005	106	19	125	2,850	1,280	4,130
All ages	48,398	11,495	59,893	970	160	1,130	49,368	11,655	61,023
Total									
Under 18	5,575	1,974	7,549	146	28	174	5,721	2,002	7,723
All ages	99,229 (b)	32,788 (c)	132,017 (c) (d)	1,425 (b)	401 (c)	1,826 (c) (d)	100,654 (b)	33,189 (c)	133,843 (c) (d)
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Total remuneration	25,364	12,974	38,338	297	150	447	25,661	13,125	38,785

B. Government Departments

TABLE 25 (contd.)

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	2,006	63	2,069	191	13	204	2,197	76	2,273
All ages	49,860	6,697	56,557	5,082	773	5,855	54,942	7,470	62,412
Females									
Under 18	34	230	264	5	24	29	39	254	293
All ages	914	3,429	4,343	17	419	436	931	3,848	4,779
Total									
Under 18	2,040	293	2,333	196	37	233	2,236	330	2,566
All ages	50,774 (b)	10,126	60,900 (d)	5,099 (b)	1,192	6,291 (d)	55,873 (b)	11,318	67,191 (d)
Total remuneration	£'000 17,059	£'000 4,916	£'000 21,975	£'000 1,717	£'000 536	£'000 2,253	£'000 18,776	£'000 5,452	£'000 24,228

(a) Number at September 25, 1948.

(b) Including the following operatives employed on outside work of erection, fitting, etc.:-

	England and Wales	Scotland	Great Britain
A. Private firms	2,772	17	2,789
B. Government Departments	47,630	4,966	52,596

(c) There were, in addition, 18 working proprietors (16 males and 2 females) all in England and Wales.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £997,000 in the case of private firms; £985,000 for England and Wales, and £12,000 for Scotland, and £562,000 in the case of Government departments; £509,000 for England and Wales, and £53,000 for Scotland.

In addition to the employees in the above table establishments in this trade employed outworkers whose numbers and remuneration are set out below.

	A. Private firms				B. Government Departments			
	Average number of outworkers employed			Total amount paid to outworkers	Average number of outworkers employed			Total amount paid to outworkers
	Males	Females	Total		Males	Females	Total	
England and Wales	2	108	110	£'000 20	1	105	106	£'000 5
Scotland	-	-	-	-	-	-	-	-
Great Britain	2	108	110	20	1	105	106	5

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

A. Private Firms

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	104.1	121.7	104.3	August	97.1	90.4	97.0
February	103.7	119.5	103.8	September	97.9	79.4	97.7
March	102.6	117.2	102.8	October	99.2	82.4	99.0
April	101.0	106.2	101.1	November	100.3	85.1	100.1
May	99.4	108.3	99.5	December	99.7	86.4	99.6
June	98.2	104.5	98.3	Percentage employment in this trade covered by the index	47.9	33.1	47.7
July	96.8	98.5	96.8				

B. Government Departments

TABLE 26 (contd.)

Month	Monthly index (b)			Month	Monthly index (b)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
April	99.8	98.2	99.6	November	100.3	100.4	100.3
May	99.9	98.6	99.8	December	99.8	100.3	99.9
June	99.8	99.2	99.7	1949			
July	99.9	99.7	99.9	January	99.4	101.2	99.5
August	100.4	100.9	100.4	February	99.3	101.3	99.5
September	100.9	101.3	100.9	March	99.7	97.9	99.5
October	100.8	101.0	100.9				

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger private establishments that made returns for the calendar year 1948.

(b) The index numbers are calculated from the number of operatives employed in one week in each month by all larger Government establishments.

Note - The question of man-hours worked in this trade will be dealt with in a later summary volume.

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