

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).

LONDON: HER MAJESTY'S STATIONERY OFFICE

1952

Price 4s. 6d net

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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

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OF ((1) Proloments Guell 61	25 or		

Monthly index of employment of operatives: Larger establishments

\* 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.

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#### RADIO AND TELECOMMUNICATIONS TRADE

#### Summary

#### Larger establishments

TABLE I

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		A. Priv	ate firms		B. Go	vernment D	epartments
	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	38,785 No.	30,777 No.	No.	No.	24, 228 No.	19,806 No.	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)	447 £'000	357	246	229	486	441	235
Stocks at end of year.	a. 000	£'000	£'000	£'000	£'000	£'000	£' 000
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			659	900	
Number of establishments	No. 406	No.	ио.	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. Pri	vate firms		В.	Government	Departments
	1948	1946	1937	1935	1948	1946	1935
Output of establishments in this trade	£1000	£' 000	£'000	£'000	£! 000	£1000	£'000
Total value of sales (1948 and 1946) or production (1937 and 1935)							
Principal products (see Table 8)	90, 129	1	31,976	24,974	42, 223	h 1	11,555
Other output (see Table 10)	14, 171	87,121	3, 280	2, 511	955	35,016	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	75.045	11,950
Less payment for transport by other firms	343	} //, 522	00,011	2,,010	-	35,045	11,550
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	10 004	10 040	10,734	6,574	
Adjustment for changes in stocks	709(a)	- 69	16,204	12,810	- 77(a)	- 177	3, 417
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

Limite Test I not assenue - Ladoret I adoret I	A. Private firms	B. Government Departments
Number of returns	139	
Average number of persons employed(a)		
Males	639	
Females	179	Carolina de la carolina del carolina de la carolina del carolina de la carolina d
Total	818	and the state-OB

(a) Including working proprietors.

#### Estimated average employment, 1948 All establishments in Great Britain m

TABLE 2

TABLE 3		
Charles   Series   Series   Tester   Te	A. Private firms	B. Government Departments
As returned by establishments	100 38	
Employed on average more than ten persons (a)	133, 861	67, 191
Employing on average ten persons or less (b)	818	GON-OUR
	134,679	67, 191
Estimated average employment in establishments not making satisfactory returns	401	TORINGS
Estimated average employment in all establishments	135, ù80	67, 191

(a) See Tables 1 and 15.
(b) See Table 2.

#### Analysis by size, 1948

#### Larger establishments in Great Gritain

TABLE 4

Average	Establish-	Gross	Net	Persons		Remuneratio	on	Net output
employed	ments	output	output		Wages	Salaries	Total	per person employed
	No.	£' 000	£, 000	No.	£1 000	£' 000	£1000	£
	via spans		A.	Private firm	ns	Cine Brians	9 940 78800	A sgarana
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	12,626	6,955	19,581	454
Total private firms	406	109,332	59,832	133,861	25, 661	13, 125	38,785	447
CONTRACT OF WELLT'S			3. Govern	ment Depart	ments	ra sasmita i I	Sadae yesta	
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

#### RADIO AND TELECOMMUNICATIONS

## Analysis by standard region, 1948 Larger establishments in Great Britain

#### A. Private firms

TABLE 5

pagtas 19H · . no	Remunerat		Net o	utput	S menno	Jan Jan H	Remuneration	n a sa
Region	Establish- ments	Gross output	Value	Percentage of total	Persons employed	Wages	Salaries	Total
and takerpants and	No.	£! 000	£1 000		No.	£1 000	£1000	£1000
England		73					and	
Northern	22	3, 630	2, 325	3.9	6,018	1,006	396	1,402
East and West Ridings of	e ane			and the second		36	7 euveta (saviev	(except egg
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

_		1000
	101	.E (
16	ומו	- 1

TABLE 0										3 3.18.4T
150A	STERN	Establish-		Sales of charac-	Net	Persons	I	Remuneration	on	Net output per person
esoltyer		Trent's	output	teristic		employed	Wages	Salaries	Total	employed
		No.	£1 000	£,000	£'000	No.	£' 000	£1 000	£1000	٤
Specialist producers of	000-13	00013				13 P 000	13	,cit		
Telegraph an telephone	ıd			No.						bretain
apparatus	area.	78	37,054	24,481	23,414	47,969	9,935	4,642	14, 577	488
Radio appara (except val			-54 754	P. French						ne Jest
and gramoph	ones	204	53, 289	44, 177	25,768	58,953	10,675	6,609	17,284	437
Valves (include ray		785.1	8,072		11	a bra	3	200		bnaiblefy.
tubes)	And .	23	8,017	4,860	4, 382	12,855	2, 390	931	3, 321	341
Electric lam	ps	44	8,531	7,524	4,779	10,060	1,928	638	2,566	475
Remainder of the trade	he	57	2, 440	T. Care	1, 488	4,024	733	304	1,037	370
Total	348	406	109, 332	10, 342	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

748 031 762 038 I	Retu	rned in t	his trad	e _	Returne	d in all	trades
	19	48	1937	1935	19	48	1935
	Quantity	Entries	Quan	tity	Quantity	Entries	Quantity
	Thous.	No.	Thous.	Thous.	Thous.	No.	Thous.
Valves, electronic (other than X-ray valves)	strageC to	Gavernmer	. 8		And the second	227	420
Transmitting and industrial, over 50 watts anode dissipation	45	1, 333			47	6	
Other electronic valves, including rectifying valves and stabilising			12,034	12,661			12,808
tubes	23, 678	.07,151			24, 419	14	J-1000
Cathode ray tubes	102		••	••	102	8	••

#### B. Government Departments

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

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#### RADIO AND TELECOMMUNICATIONS

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

			948 ales		193 Produc		193 Produc	
	Qua	ntity	Value	Entries	Quantity	Value	Quantity	Value
Radio, telecommunication and electronic apparatus		108	£! 000	No.		£1 000	ani prelim	£' 000
Radio transmitters for public broadcasting, complete	bt lessne	•	494	Zauo			e sponse in spidete: s	
Radio communication and navigational aids (including radar	in the second	8.0	Appearly	988	••	987	orealm, small	737 (a <b>)</b>
equipment), complete		••	8,422	51	1	2,357	ermening s	
Radio receiving sets, domestic, other than radiograms, complete	Th.sets	Th. valves	5-255 809	Tana, I	Th.sets		Th. sets	
Mains	1,071	5, 422	12, 187	56			3,79	
Battery	248	1,023	1,973	33	éousia sarbi		SOJETROSS SA CTEAT AL	
Other, including car radio	86	456	1,033	17	1,798	11, 325	1,724	10, 463
Unclassified	6	••	86 376	}	anabulo forte		ari istina ari istina aria aria	
Radiograms, complete	130	715	4, 203	44	120	1,954	126	1,766
Television receiving sets	Th.	sets	1277613	1 3 1	antho		iing appa tie algnal	
Visual only	FT TRACE	7.3	407	1 1	1		Combordas :	
Visual and television sound units, combined	7	1.1	2,899°	32			eroka	
Visual, television sound and radio	8.5	245.657	E oeta	eg.a		- enti	t bitter to	
receiving units, combined, and visual, television sound and radiogram units,		942	10 183	28111	2.6	136	briefe ie	(b)
combined		3.1	222	6			ndeubni ko	
Unclassified	1.3.800	26	38	846.4	1 1 1		enuol olbs	
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets	24.1	Th. valves	390 84 113	28	-5.00	63(c)	senoaqoser ranfiliques	(b)
Television transmitters, complete	and -	Ø••	351	••		eisy	eld brooms	II.

TABLE 8 (contd.)

Telephone instruments, complete, sold separately  Hand microphones  Other  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including	. 11 . 29 . 20 . 6	Value 1, 620 2, 846 666 1, 130 305 665 3, 044	-	20 15 20 21 47 23	Quantity	Value £'000	Quantity  Leonoogia  Assistants  Assistant	Value £1000
Telegraph and telephone equipment, other than testing equipment  Complete installations  Telephone instruments, complete, sold separately  Hand microphones  Other  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	. 11	1, 620 2, 846 666 1, 130 305 665		20 15 20 21 47	aneno an	selvates  selvates	Total a communation of the community of the	5, 690(d)
ment, other than testing equipment  Complete installations  Telephone instruments, complete, sold separately  Hand microphones  Other  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	9 2	2,846 666 1,130 305 665		15 20 21 47	There are an are a second and a	Toler and and on no	Injumicata da financia da fina	5,690(d)
Telephone instruments, complete, sold separately  Hand microphones  Other  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	9 2	2,846 666 1,130 305 665		15 20 21 47		Toler and ton no	elecommunication of the communication of the commun	5,690(d)
Thous  Hand microphones  Other  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	29 2	666 1, 130 305 665		20 21 47	1 100 HH 1 2 100 HH 1 2 100 HH 1 2 100 HH 1 2 100 HH	8,774 (d)	assisted a second a s	5,690(d)
Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	. 6	666 1, 130 305 665		20 21 47	1 100 AT 1 1	8,774 (d)	Jackson 1/2  Jacks	5,690(d)
Telephone instruments and parts not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	• 6	305 665 3,044		21	TANGLE STORM	8,774 (d)	ACETTALES  ANTICLES  ANTIC	olo.a
not separately distinguished  Other equipment, including parts  Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	• 6	3,044		47	1,228 1,70,1		animista renso pli mug panti Rober stanimista	olo.a
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	SE			350	170	304 - 304 - 314 - 32	Toutont o	
communication (carrier, duplex and repeater) and speech input equipment  Industrial radio frequency equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals	• 3	3, 878		23		7 35, 135 ×	de se Via Libertonii o	
equipment (valve type) including heating and electronic control equipment  Signalling apparatus, including traffic signals			100000		)_ 80	- K - K - K - K - K - K - K - K - K - K	·/ 03	
traffic signals		360	in.	25	1140g va	(b)	egabo • inta	(b)
Sound reproducing apparatus	. 1	1,077	114	25	Jap. T.	553	Placer nois	447
(electrical)		407		thia t	Thous.		Thous.	
Complete	SE THE			100		De picing	area one la	
For sound films 5.	1 1	1, 190	100		1.3	230 {	0.7	150 77
For public address		321 275	ļ	36		lauaiv nd and	thra .bents	
For industrial relay	•	316		13	18	18	the merac.	MARKETTE
-Radio loudspeakers, sold 1,84 separately		1, 493 255	1	41	1,003.5	518	748.3	497 72
Gramophones with electrical amplification	2.9	391		19	1.338	h traemen to to the	int.4.for ing gets.	
Other descriptions, excluding record players	0.0	153 97	1	18		Liters:	eden mole	
Unclassified .		62			-		9.03	S CONTRACT

TABLE 8 (contd.)

Production - Production		1948 Sales		1937 Production		1935 Production		
entity Value Quantity Value	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
Radio, telecommunication and electronic apparatus (contd.)	Thous.	£, 000	No.	Thous.	£' 000	Thous.	£. 000	
Sound reproducing apparatus (electrical) (contd.)						egnal same		
Parts	••	860	45	••	117	ioni ban o	(p)	
Electrical sound recording apparatus	••	509	18	••	83(e)	ur resoces	64(e)	
Radio testing equipment, not elsewhere specified		616	27	35181	19VES TOL	Sign Lynes		
Telegraph and telephone testing equipment, not elsewhere		005	04	>	(b)	eredoela r DOS galbas	(p)	
specified	1	895	21		8.0	ng elolder		
Transformers, other than power and instrument transformers (f)	632.5	155(e) 85(e)	12		2, 227	9500 0000 91000 000	2,053	
Components and parts, not else- where specified	••	8,215	188	1002.2	Logicales Lud azes	aniou sciud	59100	
Valves, electronic, other than X-ray valves, sold separately (f)	ete Han	1903		2 CORCE	in se sufo	oga albuard Sócia adion		
Complete		nen fastur				Edito nasi		
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	2, 215	
Parts	••	218	17	18,000	85	erect, etc	(b)	
Cathode ray tubes		sea Venez						
Complete	105.4	444	8		sona osdi	redico) acces		
Parts	••	12	5		(b)		(p)	
Photo-electric cells and parts	••	51	7			aboda		
Unclassified radio, etc. apparatus	••	149	17	J.	selvies M	(1) district	death at	
Resistors, sold separately (e)		in hou		Signate.	anch intox	L contract		
Fixed	28,467	554	35	-	mii a mag	tractors	TO THE ME	
Variable	1,942	370 204	29	2	dic and c	r se roite	felent.	
dramophones and phonographs without electrical amplification, including parts and accessories (e)		9 00			analos an	leation ap noes		
Acoustic gramophones, complete	64.0	360		107.6	313	93.6	278	
Record players	50.7	325	14	(e)	(b)	end develo	(b)	
Motors and other parts and accessories (excluding records)		1,965	18		423	ne footies	322	

TABLE 8 (contd.)

1837 1935 Production Production		1948 Sales		1937 Production			935 action
nitry Valme quantity Value	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Electric light bulbs, etc.	Thous.	£'000	No.	Thous.	£'000	Thous.	£1000
Complete, ready for use					in o moore and	Elegge old	1010104(0)
Discharge lamps					g apparatis	nisubonder (isoln:	Sound)
Up to and including 5 watts, not exceeding 300 volts	561	45	5				Part
Fluorescent tubular lamps of all types, other than high tension types for advertising purposes	3, 533	1,494	23		(b)	CAL BOUND	(b)
Other discharge lamps not exceeding 300 volts	366	566	7	sala	end emoriged	sa biza da	
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 <b>,</b> 998	279	8	(2) 8	110(8)		290(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 photo- graphic and other purposes	136, 350	6,114	28	106, 379	3,953(h)	81,263	3, 100(h)
Parts (e)		998	6	s Istr	-	01,200	- 100(II)
Electrical signs				anu f	evisv. ola	rijoele de	
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting purposes		44	3-3 (38)		ing tabes	diffeate t	et en
Other	••	184(e)	14		601	ray tube	480
		39 (e)	7		127	9.14	98
Waste products (other than scrap metals)	11.	48	46	T	(b)		(b)
Total goods		100,069		1 1 23.7	34,961	en elettee le	28, 898
Contract and other work carried out in Great Britain (1)	LI	94	-81	patratus:	is .ors .u	ther belt	Unoles
Electrical contract work done as main contractors					) Ylesety	es blos	Restation
Telegraph and telephone lines and works	10.36	2,859	9				391
Installation of radio and tele- communication apparatus and appliances	3.5	3, 450	22	# # 3 HORO 1	772(J)	eng bus	portgomesto .
Repair and maintenance work for customers		1, 233	82		577	COSSOCIAL STATES	388
Research and development work (e)		603	10		5//	migries 18 3	107
Total contract and other work	No.	8, 145			7	210:05.J	,0100 <del>5</del> 1
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work	81	4,692		(abs)	1,349	100 000	886

TABLE 8 (COLLUE)								
l/dues_	o other	1948 Sales				1935 Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	
	en	£' 000	No.		£' 000		£'000	
Total contract and other work exclusive of the value of goods							S 3JRAT	
made by firms and used in the work		3, 453	••	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1, 349		886	
Total principal products of this trade	ió kastadi	103, 522	in this is	ia device	36, 310		29,784	
Less sales (or production) in other trades	104	13, 393	••		4, 334		4,810	
Total principal products of this trade sold or made by establishments in the trade		90, 129	296	11 . 311	31,976	delegga blim medilmamend	24,974	

RADIO AND TELECOMMUNICATIONS

#### B. Government Departments

#### TABLE 8 (contd.)

		A CONTRACTOR OF THE PARTY OF TH	
Sugnificant acceptances, and plong the first and and an in-	1948 (l Sales	(2)	1935(1) Production
	Value	Entries	Value
Radio, telecommunication and electronic apparatus	£1000	No.	£'000
Telegraph and telephone equipment, other than testing equipment	187	2	iement Abbee
Line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	395	2	10 005
Signalling apparatus, including traffic signals	46	. 1	129
Telegraph and telephone testing equipment	79	tracks 2 radia	a teleparity
Components and parts, not elsewhere specified	115	2	0198
Total goods	8 23	lvelag in 1 ba	129
Contract and other work carried out in Great Britain		substitution and A	Telvotor "
Electrical contract work done as main contractors		STORY THIOTED TO ST	00402 ep
Telegraph and telephone lines and works	10,381	3	3, 529
Installation of radio and telecommunication apparatus and appliances	10,071	4	2,703
Repair and maintenance work for customers	20,948	eldall 8 ent e	5, 194
Total contract and other work	41, 399	daoin••noo 35	11,426
Total	42, 223	8	11,555
		<del> </del>	

(a) Including television apparatus.
(b) Not recorded separately.
(c) Including parts of television tr.
(d) Described as "Telegraph and telegeneous for a recorded separately.
(f) For power transformers and instruction of the separate formers are separately.

(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.
(i) 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.

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

#### Larger Establishments

#### A. Private firms

TABLE 9

Radio, telecommunication and electronic apparatus  Radio transmitters for public broadcasting, complete  Radio communication and navigational aids (including radar equipment) complete  Chaesis, substantially assembled, for radio-grame, and for television apparatus  Chaesis, substantially assembled, for radio-grame, and for television receiving sets, competite  Television transmitters, complete  Television transmitters, complete  Television transmitters, complete  Television transmitters, complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments  Tous, 1 3 3 579 9 9 1,1982 1,095  Other equipment, including parts  Other equipment, including parts  Telephone instruments and parts not separately distinguished  Other equipment, including parts  Telephone instruments and parts not separately distinguished	TABLE 9							
Radio, telecommunication and electronic apparatus  Radio transmitters for public broadcasting, complete  Radio communication and navigational aids (including radar equipment), complete  Domestic radio receiving sets; radiograms; combined visual and television sound receiving untis; transformers, other than power and instrument transformer; components and parts, not elsewhere specified, for radio, telecommunication and electronic apparatus  Chassis, substantially assembled, for radio receiving sets, domestic, for radio receiving sets, domestic, for radio receiving sets.  The Th. sets valves  The transmitters complete  Television transmitters, complete  Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Thous.  The Th. sets valves  Tolevision transmitters, complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  The transmitters and parts not separately distinguished  The transmitters are transmitters, complete, sold separately distinguished  The transmitters are transmitters, and for television receiving as the transmitters, and the television receiving as the transmitters, and for television receiving as the transmitters, and for television receiving as the transmitters, and the transmitter								
Radio transmitters for public broadcasting, complete  Radio communication and anal electronic apparatus  Radio communication and analyzational aids (including rader equipment), complete  Domestic radio receiving sets; radiograms; combined visual and television sound receiving units; transformers, other than power and instrument transformer; compenents and parts, not elsewhere specified, for radio, telecommunication and electronic apparatus  Chassis, substantially assembled, for radio receiving sets, domestic, for radio receiving sets, domestic, for radio receiving sets.  The transmitters, complete  Television transmitters, complete  Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Thous.  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including	the expression too talks	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Radio communication and navigational aids (including radar equipment, complete  Radio communication and navigational aids (including radar equipment, ocmplete  Domestic radio receiving sets; radiograms; combined visual and telephone instrument transformer; components and parts, not elsewhere specified, for radio, telecommunication and electronic apparatus  Th. Th. Th. sets valves assembled, for radio receiving sets, domestic, for radio-grams, and for television receiving sets  Television transmitters, complete  Telegraph and telephone equipment, other than teating equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments comparately distinguished  Other equipment, including			£1000	No.	T and	£'000	zeben zeben	£'000
Radio communication and navigational aids (including radar equipment), complete  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  Chassis, substantially assembled, for radio receiving sets, domestic, for radio receiving sets.  Television transmitters, complete  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including		988			-11811	Cales ve	absid to bid absid and n	
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  Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets domestic, for radiograms, and for television receiving sets complete  Television transmitters, complete  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Complete, sold separately  Thous.  Telephone instruments and parts not separately  Thous.  Telephone instruments and parts not separately distinguished  Other equipment, including	navigational aids (including	rements	neent Depart	8. Gove	10.00	65	(contd.)	13 8 3 4 4 7
than power and instrument transformer; components and parts, not elsewhere specified, for radio, telecommunication and electronic apparatus  1,423 76 799 944  Th. Th. Sets valves sets, domestic, for radio-grams, and for television receiving sets, domestic, for radio-grams, and for television receiving sets complete  Television transmitters, complete  Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments and parts not separately  Telephone instruments and parts not separately distinguished  Other equipment, including  Other equipment, including	Domestic radio receiving sets; radiograms; combined visual and television sound receiving	V 14, 43	1,834	J 18	10,760		10, 420	
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets  Television transmitters, complete  Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including	than power and instrument transformer; components and parts, not elsewhere specified, for radio, telecommunication	1,188,189	1 407	nelisolau	Thornosis O Themph 105, 7/6	th pung di	elecommunication and to mental	TOTAL
grams, and for television receiving sets  O.1 1.0 1  Television transmitters, complete  Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Thous.  Telephone instruments and parts not separately distinguished  O.1 1.0 1  304  304  4  Thous. 1,532 11  Thous. 1 532  Thous. 1 532  Thous. 1 685  Other equipment, including	Chassis, substantially assembled, for radio receiving	Th. Th.		Ismari of insmall of the many	peec. inp	10 m 799 m	x and reper ling appar aph and to	10 10 944 10 10 10 10 10 10 10 10 10 10 10 10 10 1
Telegraph and telephone equipment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including		0.1 1.0	1	Ama orpono	-	_	8000B.18	36T
ment, other than testing equipment  Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including	Television transmitters, complete	·	304	Joerdnup	lam su eno	DE HICH TOR	Idago_lsol	Vesta _
line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment  Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including	ment, other than testing	.10	apparatus	alion noiseinn	ines end	telephone tradic an	egraph and calletten cappilance	
Telephone instruments complete, sold separately  Telephone instruments and parts not separately distinguished  Other equipment, including	line apparatus for long distance communication (carrier, duplex and repeater) and speech input	20 44 42	8,889	arena:	for cust	nakoe wone	r and maint at contract an	
Telephone instruments and parts not separately distinguished 665 21 1,162 1,095			1,532	11	settles.	aqia motat	relea metholo	
parts not separately distinguished 665 21 1,162 1,095	complete, sold separately			9	manatt no a modqalat in	tvedel to e duskeels erasje bed	STAR DATE	
Other equipment, including	parts not separately	ob attendance	665	21	deminated by the same of the s	1,162	menj 19004 1 Deni (Lerepe) M de bediris M se bediris	1,095
and which does not one is also sor someth the control of the contr		time and u	762	21	or returns	trans best and so ma ansev ser widestine	Paraltetam T	0 986 P

TABLE 9 (contd.)

		1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£' 000	No.		£1000		£1000
Radio, telecommunication and electronic apparatus (contd.)				2714	ons acts	ognace (a+)	
Industrial radio frequency equipment (valve type), including heating and electronic	TE.	184 19 19 19 19 19 19 19 19 19 19 19 19 19			335 .011	er 50/1144	
control equipment	••	152	8	1			
Signalling apparatus, including traffic signals	•• 38	571	11		249	••	182
Sound reproducing apparatus (electrical)	Thous.	1 488	920.5	Thous.		010	rinšti
Complete				THOUSE BY	eridatzorob	CI CATE SINTE	edoniemo
For sound films and public address	2.6	336 43	} 5	· éatar	fication. dic accept	Arren sitt	100 to 100 to
Radio loudspeakers, sold separately	7.5	4		1. 2	80	gomera sin	327
Other descriptions, excluding record players		4 21	6	(abree)	na savog o * palaulig	eldo ogs e e) sellosed	10300 1556
Unclassified; and electrical sound recording apparatus		73	7	-	,019 ,201 980_101	us somilio.	diddi -
Parts		127	14		49	esi Zasab	10 -
Radio testing equipment, not elsewhere specified		14		- con	TALLOUSE LE	onsoascori oni Lis lo	-
Telegraph and telephone testing equipment, not elsewhere specified	••	32	6	_ 308	esaddig	mattervos	_
Valves, electronic, other than X-ray valves, sold separately	of concess	de servición i	du asa	e const	159607	e lo inex re	COPE.
Complete		7 365 4	178,28,48		Safet on	Ap a toko o	É
Transmitting and industrial and other electronic valves, including rectify-	A SEL	den föhel	501.05	bas olda	rejojoria je 139. pas est	n bilid da	627 10 15
ing valves and stabilising tubes	393	166		h lines in a	to Accept	remu.	
Parts	a Sthar at	118	7	}	80	••	23

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4/M/15

TABLE 9 (contd.)

	1948 Sales		193 Produ		1935 Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	£' 000	No.	Thous.	£'000	Thous.	£'000
Radio, telecommunication and electronic apparatus (contd.)		BAS			7	1988	
Cathode ray tubes		99.18			igulari	Produc	
Complete	0.1	1	Ry Ly manua	Decement to	Verifie /	Quentity.	Tata
Parts .	JOH	12	5	_	E1 000		2100
Photo-electric cells and parts		1		1 _ 6	stus (cont	telecommunication	
Unclassified radio, etc.		_			onsupert o	ther ising	ubat
apparatus		149	17	olabora se	ve type).	Lev) Jasma Jash Tanthu	ups
Resistors	y a	281			one	moile equipm	
Fixed	25,044	325	25	nuthu	ertus, cind	bqua anlili	
11200		141	25		-	10018 3-5 1/2 1/	-
Variable	1,096	19 1 21	18	-	onredde St	cortex1)	Is) _
Gramophones and phonographs without		~-				plote	
electrical amplification, including parts and accessories	i a i		8.3	) stia	g bus smil	t bruss to	
including parts and accessories				J.	76	BABADAE	
Acoustic gramophones, complete	-		- 8.0	94.4	283	86.0	265
Motors and other parts and					2001 751	Inpan mant	
accessories (excluding records)	4	316	7	•010	47	autorione	53
Electric light bulbs, etc.					: ona. sis	VITIALEION)	
Complete, ready for use	7			Simple	pat poros n	SDE STRUCK	
Discharge lamps	N N					2.7. 631	
Fluorescent tubular lamps				5.00	Jueng iuge	Lesting	
of all types, other than high tension types for	100	1.3			bellie	egnere spens	
advertising purposes	1,596	661	7	autos	d emortge to	Come Tiget	eler -
Other discharge lamps not exceeding 300 volts	108	157		_	_	bellie	909
Motor vehicles types; flash-				nana	olic, other	es, electro	
light case types, radio panel and cycle dynamo bulbs	28,316	709	6		ange Bros	asvlav vs	
Flash bulbs for photographic and		1 376		35,568	1,371	25,345	971
other purposes, and other bulbs	30,168	1,334	2848708	19139	ologipale	ned other	
A Committee of the second seco	30,200	1,004	antavya P	-till	en anibeltr Ideta bos a	Malves, II	
55 01157 2011 08	The Cart	301	Section 1			89000	
Maria .	V. TI	.811	The state of			. 87	

TABLE 9 (contd.)

TABLE 9 (CONTO.)	0.2 6.3 6.6 (0.6		13 118 119			,	
	ad Submit a	1948 Sales	to position.	1937 Produc		1935 Production	
amanyawii,	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Electrical signs	and the same	£1000	No.		£1000		£'000
Luminous tubes and tube signs and parts thereof, other than tubular lamps for lighting	30000 73,4	1 - pool 1%				RI-SHE BEE	
purposes	••	100	5				
Other	••	7	••	]	149	ust a ••	564
Total goods	08	12,898			4, 334		4,437
Contract and other work carried out in Great Britain (a)		873 .					
Electrical contract work done as main contractors	508.8	j m			de las va	introles (13	
Telegraph and telephone lines and works	384 384	593		900 Bridge	1 157/5 (NEC)		261
Installation of radio and tele- communication apparatus and appliances	56148	93		, S	-	8,000	112
Repair and maintenance work for customers	4.	10	19	* 114			PARTIES N
Total contract and other work done		696			ista		
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work		200				Trecorn to	373
Total contract and other work exclusive of the value of goods made by firms and used					av densk dos		
in the work	361	496	••		-		373
Total goods made and contract and other work done	481	<b>13,</b> 393	••		4, 334		4,810

<sup>(</sup>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

TABLE 10					
occis vallend suley (713-mg) este	Α.	Private firm	S	B. Govern	
	1948 (a)	1937(a)	1935 (a)	1948 (a)	1935 (b)
Capacitors and parts	£'000 273	£'000 167	£!000 149	£'000	£1000
Electric lighting fittings and wiring accessories	1,531	48	55	Litor species of	inted Josepa
Electric cooking apparatus	45	-	102	- 1	
Electric heating apparatus	279	25	42		rendO_
Electric irons	132	39	9	<u>a</u> booa	1880S _
X-ray apparatus	176	_	10 - 0 ette <b>L</b> eo	from heady bus	forth descri
Other electro-medical apparatus	132	4	5	(a) minura	8630 11
Electrical machinery and plant	179		es e rob sesc	cal contract w	laria Laria
Other electrical goods and apparatus	7,133	2,206	1,688	_	-
Scrap metals sold	594	182	79	27	184(c)
Other goods	3,165	455	270	132(d)	Bust -
Total goods	13,640	3,126	2,399	159	184(c)
Contract and other work carried out in Great Britain (e)			dot sypewie	oneno autam bris	The space
Electrical contract work done as main contractors			ATOW TORSE	pas Josefinos	esol Bool
Electric power and lighting lines and works	The state of the s			543	200
Other electrical contract work, excluding that on telegraph lines and works and the installation of radio and tele-	1		Pladateds	bna enelî (22) 2008 ca babin	BAS. De-Y
communication apparatus and appliances	426	(f)	109 }	e arroir dakas mi	-
Electrical contract work done as sub- contractors			10 001	62	sja?** bea
Other work done	397	154	3	192	1903 111 -
Total contract and other work done	823		Jouranne a	ni onan ingasi	6367
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	mot sentation			and the second of the second o	2
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

#### Analysis of sales, 1948

#### Larger establishments in Great Britain

TABLE II

(e) arioing (e) conclass (o) (d) notiousers	A. Priv	ate firms	B. Gove	
the Applia continue to Allow 12	Sales	Percentage of total sales	Sales	Percentage of total sales
Sales (or transfers) to other organisations under the same control	£'000	province of	£'000	00.81050
Productive works	2,992	3. 1	upa tabat god	bolomb -
Export sales organisations (including branches abroad)	3,986	4.2	o leave spirit	people of a
Other wholesale or selling organisations	14,074	14.7	-	
Retail shops, etc.	1,881	2.0	300 300 AT 100 A	in dida-
Total sales (or transfers) to other organisations under the same control	22,933	23.9	-	taien -
Sales to independent buyers	401	ndhai e	en dustracteur	
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	reden verke j ou den verke ni	-
His Majesty's Government and Local Authorities (other than productive establishments)	14,957	15-6	823	83.7
Mamufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	12,819	13. 3	odijažšy zine i 2044. ja <del>–</del> 1868	Andrews
Wholesalers, merchants and other agents for resale	10,608(a)	11.0	159	16.2
Retailers, including multiple shops, caterers and N. A. A. F. I., for resale	13,697	14.3	iceáse bna f	-
Other businesses (including farmers) and institutions of all kinds	1, 421	1.5	_	e Langi e
Members of the public, including employees	216	0.2	le cespo — risches	els jun-
Total sales to independent buyers	73, 095	76.1	983	100.0
Total	96,027(b)	100.0	983(b)	100.0

<sup>(</sup>a) Of this total £6,976,000 was recorded as divided between £1,212,000 for export and £5,764,000 for other sales.

<sup>(</sup>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.

<sup>(</sup>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

TABLE 12		,	,	44 3 18 4 9
a Private Israe		Production (b)(c)	Exports (d)	Retained imports (e)
		£1000	£'000	£'000
Radio, telecommunication and electronic apparatus (f)		81000	81600 8	reg i wade
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)
Radio receiving sets, domestic, other than radiograms, complete		Th.sets	Th.sets	Th.sets
Mains	1948	1,071	242	) aaisa įs <del>,</del> oT
Battery	1948	248	27	Marianal or to be?
Other, including car radio	1948	86	12	
Total radio receiving sets, domestic, other than radiograms, complete	1 948 1937	£'000 15,654 (h) 11,325	£'000 3,153 381(1)	£'000 17 156(1)
Television receiving sets, complete Television transmitters, complete	1948 1948	Th.sets 82 & 000 351	Th.sets 2,000 38	Th.sets - &'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	em .eralse ludu
Signalling apparatus, including traffic signals	1948	1,123	362	saseniaud 3/130
Telegraph and telephone testing equipment, not elsewhere specified	1948	974	66	end to en 9 men
	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	3.60	64	esiae rento · T LATON ELET (d) ANDROUSOLEI

#### TABLE 12 (contd.)

TABLE 12 (contd.)	(8) 80200	700781 19-11 11 19-11 17	T . (1)	Retained
	to residio	Production (b) (c)	Exports (d)	imports (e)
Charter Tillian and had a traded at		Thous.	Thous.	£1000
Radio, telecommunication and electronic apparatus (f) (contd.)	108	8277 L	rest complete	
Sound reproducing apparatus (electrical) other than cinematograph apparatus, record players and gramophones with electrical amplification	081	1948 1948 1948	12, 134 53 4 260173361	engenga segerapikei ngiy ediongamena aotienii inome
Radio loudspeakers	1948	2, 137(J) £'000	304 £'000	
Public address equipment, complete	1948	596	100(k)	23(1)
Other descriptions, including parts	1948	1,427 (m)	142(n)	
Radio testing equipment, not elsewhere specified	1948	616	115	100 100 8 1 100 100 100 100 100 100 100
Components and parts, not elsewhere specified	1948	8,330	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
Valves, electronic, other than X-ray valves		Thous.	Thous.	Thous.
Complete		TO SEE THE SEE SEE SEE	in lange acoust mainted and in a court of the court of th	and an analysis
Transmitting and industrial, over 50 watts anode dissipation	1948	47(0)	11	2
Other electronic valves, including rectifying valves and stabilising tubes	1948	24,419(0)	5, 611	320
Total valves, electronic, other than X-ray valves, complete	\[ \begin{cases} 1948 \\ 1937 \end{cases} \]	24,466(0) 12,034(p)	5, 622 1, 726	322 2, 268
to construction in the second of the second		£'000	£, 000	£' 000
Parts	∫1948 1937	218 85	24 5	70 209
		lever (	Sur as Soc	ing repair bus
Cathode ray tubes		Thous.	Thous.	Thous.
Complete	1948	102(0)	2	8
7, 467. A 1556.0. A 1556.0. A 1566.0. A 1566.0		£'000	£'000	£1000
Parts	1948	12	6	10

#### TABLE 12 (contd.)

	e service	Production (b) (c)	Exports (d)	Retained imports (e)
(P) security		Thous.	Thous.	Thous.
Gramophones and phonographs, including parts and accessories	Thous	mous.	IIIOUS•	THOUS.
Acoustic gramophones, complete	{ 1948 1937	64 108	51 71	.000000 (1) -244608208 4
Radiograms, complete	1948	130	Tage 180 7 Age 180	ogenealo:us <u>i</u> n acuso
Gramophones with electrical amplification	1948	23	51 67 180432 1	(q)
Record players	1948	51	18	£1000
Motors and other parts and accessories	734-1	£!000	۵' 000	10110111026
(excluding records)	1948	1,965	576	
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.		9991	ban transfers a	Daskinsty of hor Lose D
Complete, ready for use	649 B	8402 3	res, not eleawier	
Discharge lamps for lighting purposes	apoitte	Thous.	Thous.	Thous.
Up to and including 5 watts, not exceeding 300 volts	1948	561	37	Valves, electronic,
Fluorescent tubular lamps of all types other than high tension types for advertising purposes	1948	3, 533	410	7 1900
Other discharge lamps not exceeding	1010	-0.491	collegisali	ebona Grazy og
300 volts	1948	366	225	impropers ienic
Motor vehicle types (u)	1948	32, 429 16,286	3, 232(v) 1,121	935 (v) 7, 913
Other descriptions	380 (S)	tetel]	sasiduos faaki	than X-ney ya
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	1,853	1, 024 (W)
Total flashlight case types, radio panel and cycle dynamo bulbs and other bulbs not exceeding 24 volts, excluding		EN CASE	11,914	Complete ,
flash bulbs for photographic and other purposes (x)		51,532 10,760	7, 457 4, 222	1,753(w) 47,064

#### TABLE 12 (contd.)

3	hwent	Production (b)(c)	Exports (d)	Retained imports (e)
The second secon	amyly	Thous.	Thous.	Thous.
Electric light bulbs, etc. (contd.)				61 338KF
Complete, ready for use (contd.)		7292		
Other descriptions (contd.)	THE LIST	Paserials end		
Other bulbs exceeding 24 volts		purchased		
	1948	136,350 106.379	22, 434 14, 946	383(z) 7.036
The whise   whenco   The cures   1000   1000	000	£! 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 oversea 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.

(1) 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 oversea 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 oversea trade figures for 1937 relate to bulbs under 20 volts other than for motor vehicles.

(y) The production for sale and the oversea 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	g parto			(*DEDOO) 6	Mar Manana	angua, okus osia		
	1948	3	1937					
	Materials a purchas		Usage of purchased materials and fuel					
Bacifyloge Cuplers 184 82	Quantity	Cost	Quantity	Cost	Quantity	Cost		
Materials 2007	Th. cwts.	£1000	Th. cwts.	21000	Th. cwts.	£!000		
Iron and steel	(881880	01.0	202	dar lamis	r than thir	thereof, ours		
Bars and rods	(80) 202					Sinh Stronger		
Alloy steel	11.5	124	120.5	149	ol selse 1	(a)		
Iron and non-alloy steel	81.6	146	in the grangues	PLINING	jon ara ga	rolemand		
Castings and forgings of alloy steel, in the rough	0.3	1 2	57.1	85 (c)	4.5	48 (b)		
Iron castings, in the rough	27.8	64	o evicators	938.28340 931 benic	32.6	47(d)		
Angles, shapes and sections of iron and non-alloy steel	44.3	68	51.1	49(e)	s to adea	(a)		
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)	a by eatab	(p) Productio (c) Included (c) Excluding		
Sheets and strip of alloy steel	15.1	72	edalqmoo at	DSI STER S	ni laeviev.	(a)		
Other descriptions, except finished parts	the 1881 dol ser	102011	id-sectero e	(a)	aci acida	ariov OS allow (v)		
Alloy steel	3.5	15	ographic and a cyersea of	s for photes and the colors.	Hash bull stion for a motor veh	(w) including (x) The production than for		
Iron and non-alloy steel	117.5	87	ons oldoses	ale and the	i vol nels Hash dail	(v) The produce (a) Excluding		
Unclassified	1,19467	-4		Listersce	babtopan	es Dirigio (as)		
Alloy steel	•	138	-	-	-	-		
Iron and non-alloy steel	•	538	-	-	-	T. WESTER		
purposes (x)	3.97	, 103	780	4.45		7,084		
and the second second	1 ,							

TABLE 13 (contd.)

Swis. 21000 Th. owns. 21000	1948	3	1937		1935		
	Materials a purchas		Usage of purchased materials and fuel				
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
aterials (contd.)	Th. cwts.	£1000		£1000		£1000	
Aluminium and aluminium alloys	No.						
Plates, sheets, strip and circles	29.9	206				St beliff	
Castings and forgings, rough dressed	15.3	134 26				ottented	
Foil	2.5	51	00	(a)	• •	(a)	
Other descriptions, except finished parts		181				eriao ilia	
Unclassified		201			spelgson	datter ies.	
Brass (including all alloys of copper other than nickel alloys)		1 .703,	Th. cwts.		Th.cwts.	ned dgif	
Plates, sheets and strip	81.0	658	63.7	253	7000	end vol	
Castings	3.3	43	5.7	26	ton and	terminal as souls	
Other descriptions, except finished parts	36.1	269	47.7	167	94.3	297(h)	
Unclassified		429	-	-		at plays part 1	
Copper	170.6	1,608 78	149.7	667	131.0	501	
Lead and alloys of lead	201.7	1,000	257.4	290(1)	208.4	184 (J)	
Zinc and alloys of zinc	7.5	41 16	}	(a)		(a)	
Porcelain	0.2	19 28	3.2	28	2.6	26	
Other ceramics	1.5	94 45		(a)	is addsw 00	(a)	
						•	

TABLE 13 (contd.)

Materials (contd.)  Paper (excluding packing and wrapping)  Rubber  Tubing  Other descriptions  Synthetic resins	Materials purcha:  Quantity  Th.cwts.  36.7		Usage of Quantity Th.cwts.	Cost £'000 74 14	Quantity Th.cwts.	Cost
Paper (excluding packing and wrapping)  Rubber  Tubing  Other descriptions	Th. cwts.	£'000 317 {	Th. cwts.	£'000	Th.cwts.	£1000
Paper (excluding packing and wrapping)  Rubber  Tubing  Other descriptions	36.7	317 {	24.3	74		
wrapping) Rubber Tubing Other descriptions	0.3	14			27.3	68
Tubing Other descriptions	••					
Other descriptions	••					
	2.0				Complete for	S) SERTION
Synthetic resins		29 25	2.8	30	3.6	30
	1881	6.81	ì		nights bee	esett fact.
Lump and powder, including moulding powder	17.7	189	23.1	91	33.7	90
All other forms	6.5	<b>1</b> 54 45	6.6	107	3.6	40
Batteries, complete	Th. cells	1 20			164	
High tension	2,167	33 7			ile shibe	
Low tension	520	23 5	10.2		Line oyean	
Unclassified, including combined high tension and low tension		13				
Magnets, permanent	Thous. 12,295	490	80.8	Joors.	appolantion apple	or mano enainti
Loudspeakers	1,216	677			161	
Pickups for radiograms	507	234				
Valves, electronic, other than X-ray valves	130004	75. 100			er to and f	
Complete						
Transmitting and industrial	1 64				In to store	
Not exceeding 50 watts anode dissipation	1,394	317		5,348(K)	••	4,191(K)
Over 50 watts anode dissipation	2	6			801	

Quant  terials (contd.)  Valves, electronic, other than X-ray valves (contd.)  Complete (contd.)  Other electronic valves including rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	rchase ity	Cost 2,000  1,798 97 272 389  2,306 501 567	Usage of programme Quantity  Thous.	Cost	Quantity	Cost £'000
Thouseterials (contd.)  Valves, electronic, other than X-ray valves (contd.)  Complete (contd.)  Other electronic valves including rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	.05  90 	2,000 1,798 97 272 389 2,306 501 567			Quantity	1
Valves, electronic, other than X-ray valves (contd.)  Complete (contd.)  Other electronic valves including rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	.05	1,798 97 272 389 2,306 501 567	Thous.	£'000	AGAILED AND AND AND AND AND AND AND AND AND AN	£1000
X-ray valves (contd.)  Complete (contd.)  Other electronic valves including rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 758	97 272 389 2,306 501 567			SOLI SOS	
Other electronic valves including rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 758	97 272 389 2,306 501 567			PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS PSITESAS	
rectifying valves and stabilising tubes  Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 758	97 272 389 2,306 501 567			ASTRONAS AST	
Unclassified  Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 758	97 272 389 2,306 501 567		eans a	PSTYPHANE  PSTYPHANE  PAGE DOS 31  COMMA COMMA  TOFT ESSE	
Parts  Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 758 670	272 389 2,306 501 567			PSITE AND STATE OF THE STATE OF	
Cathode ray tubes, complete  Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	90 	389 2,306 501 567			Totales	801 R
Radio and television cabinets  Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	758 670	2,306 501 567			TATE OUR ALL CONTROLS OF THE LANGUAGE	
Of wood  Of plastic materials  Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	670	501 567			TOPTIESE	
Of plastic materials Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors Alternating current  Thous.	670	501 567		e saldat	and Ismales	
Unclassified  Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	••	567		. skomer	ida ismiso	P188
Radio and television parts and accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.					eta Lamera	\$300 m
accessories, not elsewhere specified  Fractional horse-power motors  Alternating current  Thous.	0.0	6,148				
Alternating current  Thous.  Not exceeding $\frac{1}{3}$ h.p.						
Thous.					2001 (308)	
Not exceeding $\frac{1}{3}$ h.p. $\begin{array}{c} 7 \\ 5 \end{array}$				12.12.40%		
Not exceeding $\frac{1}{3}$ h.p.	Thhp	45	100000000000000000000000000000000000000	and a Co	are labeled	
1	0.9	45 16			Section 345	d trees
Over $\frac{1}{3}$ but under 1 h.p. 3	• •	28	634	2012 Ed		
Direct current and universal (A.C. or D.C.)				75		(a)
Not exceeding $\frac{1}{3}$ hap.	0.6	30 6	29	35	2000	(2)
Over $\frac{1}{3}$ but under 1 h.p.		2				
Unclassified ••		39			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Packing materials		2,031		522		(a)

TABLE 13 (contd.)

	194	3	193	57	1935		
Test has a full see because of the beauti	Materials a		Usage of	purchased	materials a	nd fuel	
Perc Parliament People enterence!	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials (contd.)	Th.cwts.	£'000	Ca, swess	£'000	(LUSTICE)	£'000	
Glass			22.0	er nette	Logariteria	SEVERY	
Rod and tube	27.5	359 217			prince) sala		
Blown	33.3	426 664			oudoufe tal 2 hulkalan		
Other descriptions	3.2	39 47			bol themse		
Unclassified	0.	190					
Mica	100 T				Resident some	bodasa	
Block and splittings	1.0	40 21		Dantida ir na	ervelas thi	- Cotton	
Built-up ("Micanite") {	0.1	10 63					
Unclassified	• •	33			64 na - 52 2 mg	g 35	
Paint, enamel and varnish (1)	13.5 Th. galls. 55.9	109			. Bold by	inglias	
	e e	74			3701	ENGOR.	
Cotton yarn and thread	Th. lbs. 801.6	252			-ancor I de	170279	
Silk yarn, thread and cloth	59.7	26 15	• •	7,322	ma Suraan	6, 787 (1	
Rayon, nylon, etc., yarn, thread and cloth	71.5	28					
Insulated wires	• •	1,880			anineenzelo	31	
Timber (excluding timber used for making into packing cases, etc., or for repairing returnable cases)	Th.cu.ft.	E			an and 4-15		
Hardwood	298	145			Contraction of the		
Softwood	Standards 1,335	64					
Plywood	Th. sq. ft. 3,958	229					
Veneers	4,498	84			300 E		
Unclassified	• •	13			esfitte.		
Purchased components, not elsewhere specified	200,8	11,157			albitatar :		

TABLE 13 (contd.)

	1948	19V00	1937		1935		
	Materials a purchas	THE RESERVE THE PROPERTY OF THE PARTY OF THE	Usage of p	urchased m	aterials an	d fuel	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials (contd.)	7421	£'000		£'000		£1000	
Replacement parts for firms! own machinery	AZ BISINGIS	337					
Consumable tools bought as replacement	netes	486					
All other purchased materials	• •	6,353					
Unclassified purchased materials	• •	74	-	-101	orinide) 7 em	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Fuel and electricity	Th. tons		Th. tons		Th. tons	. ent	
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.)	dr I	Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		
From public supply	151,231	697	n. 555	005	E4 000	179	
From other sources	151	1	71,357	225	54,298	1/9	
Electricity obtained from other works under the same owner—ship	-	784	Test one	ialanden be		10 TH	
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			in welling of	20.19)	
Other oil fuel (including creosote/pitch mixtures)	3,366	124	970	17(0)	898	13(0)	
n. 60	Th. therms 5,645	248	Hammon 7		es poolities	4 (2)	
Gas purchased (p)	Th. cu. ft. 62,914	12	e ans acres	104	• 0	(a)	
All other purchased	asw sasi ni	13			en untballa	(a)	
Unclassified purchased fuel and electricity	0.	9	remained :	i bolgrand Byl lya <del>t</del> i Santaldo	es april To	d 10-	
Unclassified purchased materials and fuel	900 900	163	-	or the	isting de	0 (0) 0, 67	
Total		49,254		16,204		12,810	

#### B. Government Departments

#### TABLE 13 (contd.)

						THE RESERVE OF THE PARTY OF THE
		19	48 (	1)	1935 (3	r) careage
		Material purc			Usage of pu materials a	
		Quantity		Cost	Quantity	Cost
		Th. tons		٤١٥٥٥	Th. tons	£'000
Fuel and electricity					ing becaused beild	easioni
Coal and at an	{	1.6		5(l) 1	1.8	1
Coke	{	0.5		2(1)	0.2	-Coke
		Th.B.T.U. (kW.hrs.)			Th.B.T.U. (kW.hrs.)	Erapela.
Electricity purchased from public supply	{	1,555		6(1) 2	611	2
All other purchased materials and fuel		e o		10,717	meni bestdo gji:	3,414
Total		1.50		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".
- (1) Described as "Lead, pig and sheet".
- (j) Described as "Lead in all forms".
- (k) Described as "Wireless parts and accessories".
- (1) 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

ISJOT - LEGISTANDE LANGUE (C. 2001) DELIGIO. DO	At beginnin	g of year	At end of	year
	Quantity	Value	Quantity	Value
		£1000		£'000
Finished products	Sec. 4	9,927	B. ELE . 81 1	14,517
Work in progress	a avalas	17,065	13 - 49gi	17,850
Total finished products and work in progress		26,992		32,367
Materials and fuel	Th. cwts.	cop or gap	Th.cwts.	11A-10K
Alloy steel in all forms, except finished parts	27.9	135 18	25.2	151
Iron and non-alloy steel in all forms, except finished parts	309.6	574 100	350.6	695 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	226
Other descriptions of materials and fuel	Ones live and	10,241		10,785
Unclassified materials and fuel	fenceles fenceles	1,960	••	1,861
Total materials and fuel	e epecition.	14,551		15,260

#### B. Government Departments

TABLE 14 (contd.)

A, Private Firms Operatives Administr	At beginnin	g of year	At end of	year	
teomics.	Quantity	Value	Quantity	Value	
Transport of goods		£' 000		£1000	
Finished products		587		445	
Work in progress		560		843	
Total finished products and work in progress		1,146		1,289	
Materials and fuel	****	583	t made that area	659	

#### Employment and remuneration (a)

#### Larger establishments

#### A. Private firms

TABLE 15

d of year	ine (	Av	erage numbe			rative, te			Tota	al
y Value	J LJ	1948	1937	1935	1948	1937	1 935	1948	1937	1935
Males			000+2					Commence of	1 068	
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			000 00					es saparent	bedairin	COND.
Under 18		2,850	7,607	5,853	1,280	1,300	897	4,130	8,907	6,750
All ages	, IE, (Tar)	49,368	32, 299	28,309	11,655	4,899	3,957	61,023	<b>37,</b> 198	32,266
Total	8.	<b>5</b>	8.1	10110					2	TEG .
Under 18	8.	5,721	13,798	9,946	2,002	2,077	1,462	7,723	15,875	11,408
All ages	77.4	100,654 (c)	66,139	53,885	33,189 (d)	15, 244	11,844	133,843 (d)(e)(f)	81,383	65,729
	146	£'000	one T	3.55	£1000	sinst be	reimis	£!000	a ila al a	arge0
Total remunerati	on	25,661	280.00	2.03	13,125	10,750am	ra alai	<b>38,7</b> 85	egalis chas	Leady

#### B. Government Departments

TABLE 15 (contd.)

TABLE 15 (COM	,						
at bier	Average n operat			ve, technical employees (b)	Total		
1000	1948 (g)	1935 (h)	1948(g)	1935 (h)	1948 (g)	1935 (h)	
Males				1-100015			
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	orie said within a		en la principalità del la principalità della principalità del la principalità della principa				
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	
	£'000		£'000		£'000	727722	
Total remuneration	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

Canteen workers

Other workers

Other workers

273 males

240 females

- males

- 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.

case of Government establishments.

(f) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons: -

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

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

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

					f.	100 000 000 000	I THE LOT			
	Amount	Establishments making returns for the calendar year								
	by all	all ablish Amount	Percenta	Percentage of annual remuneration paid in						
10 abet - Tittset	establish- ments		First quarter	Second quarter	Third quarter	Fourth quarter	Year			
Wages and salaries of	£1000	£1000								
Operatives	25,661	12,676	24.6	24.7	23.6	27.2	100.0			
Administrative, technical and clerical							and Sheet			
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	Establishments making returns for the year ended 31st March, 1949						
ers dud sberg sid of anse of spilling arranges of cales are the second of cales are as	paid by all		Percenta	age of annua	al remunera	tion paid i	.n	
	establish- ments	Amount paid	Quarter ending 30th June 1948	Quarter ending 50th September, 1948	Quarter ending 31st December, 1948	Quarter ending 31st March, 1949	Year	
Wages and salaries of	£1000	£'000	is artow and		i ess com Long savia	ese ja seitä.	OMOTO CON	
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	

<sup>(</sup>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

Activitations Disposals	A. Private firms	B. Government Departments
000 m2	Amount	t paid
CAT STATE OF THE S	£1000	£'000
Repair and maintenance	29101	
Of buildings	238	7
Of plant, machinery and vehicles	418	15
Unclassified	441	<u>-</u>
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		00 3184T
	224	
Unclassified	475	Mar and Mary
Payments made for research work	And her agent)	indepartments as
To research associations	59	B ( (4) -2
To universities, institutions, academic bodies and similar agencies	5	Caratan E
To other commercial concerns	529	
Postage, telephone, telegrams and cables	348	6
Commercial insurance premiums	458	Habba - 11 -
Rates (excluding water rates) payable in the year	184	179

#### Plant, machinery and vehicles acquired and disposed of, 1948

#### Larger establishments in Great Britain

#### A. Private firms (a)

#### TABLE 19

a manage a	Acquisi	Acquisitions					
20211	New	Second-hand	Disposals				
oliq moota "Tasi"	£1 000	£¹ 000	£1000				
Plant and machinery	2, 453	225	149				
Vehicles	149	34	48 180 00 01				
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

1705	pos tel clay sy despered of circulary attack.		
		£! 000	£' 000
1.	Capital expenditure on building work (b)		435
2.	Existing buildings and land (c)		Payments nade to
	(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	Antitation of the University of Section 1	126
4.	Headings 1 and 2 less heading 3		1,204

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

Including property destroyed or abandoned.

#### 1948

#### Summary Larger establishments

#### TABLE 21

TABLE 29	A. Private firms			B. Government Departments				
	England	Wales	Scotland	Great Britain	England	Wales	Scotland	Great Britain
DAPARTEMENTS	£'000	£'000	£'000	£'000	£' 000	£'000	2'000	£'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	183-	an	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
Endia communication and	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
	٤	£	£	٤	£	٤	£	8
Net output per person employed (a)	445	476	482	447	488	454	481	486
Stocks at end of year	£'000	£'000	£'000	£'000	٤'000	£'000	2,000	£'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	seltigon	5	659
.hot elseweets	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:-

Output of establishment in this trade	ธ. 000	£'000	£'000	£'000	£'000	£'000	£'000	£1000
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
combined: 2nd / gishal television	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

ntadaka 20813 - 000'2 9900'	nd wales 3cc		A. Private firms					
1.89 19.557	England	Wales	Scotland	Great Britain	Great Britain			
Number of returns	131	4	4	139	vent for work done			
Average number of persons employed(a)	S 568 1 8	8.03   S50.08   18 1961   S879 En Pull	100 00 100 100 100 100 100 100 100 100		.p. output sees and salaries of a moloyed			
Males	602	17	20	639	ierage number at persi mployed (s)			
Females	172	2	5	179	-			
Total	774	19	25 19 100 13	818	ersec to bae as associ			

(a) Including working proprietors.

# Sales in the trade Larger establishments A. Private firms

TABLE 23

	England	England and Wales		Scot	land	Great Britain		
	Quantity	Value	Qu	antity	Value	Quantity	Value	
		£'000		Secu-	£1000		£'000	
Principal products						Attack Connect on	COLUMN TO LOCAL	
Radio, telecommunication and electronic apparatus		*	0.0			Terringual A	238 5 CROS	
Radio transmitters for						nona Tanto .a	PERGINDS CONTROL	
<pre>public broadcasting, complete</pre>		(a)			(a)	equipment a tracellation	486	
Podda communication and						nol auserage	a site i	
Radio communication and navigational aids						ary raples and	Triso)	
(including radar equipment, complete	••	(a)	Set .		(a)	1 mindribe	6, 588	
Domestic radio receiving						destruction of the	Stide fat	
sets; radiograms; combined visual and	(a) 100.3		(a)				STEROS EN	
television sound receiving units; trans-			7.01				8 19476	
formers, other than power and instrument	101		Card I				-United States	
transformers; components and parts,		100		1				
not elsewhere specified for radio, telecommunication and	(2)		(a)				Territo.	
electronic apparatus		28, 110	1.00		1,679	ANDERSONS A	29,788	
Television receiving							CONT. DRUGG	
sets	Th. sets					Th. sets	03278008	
Visual only	7.3	407		suc	T -	7.3	407	
110001, 0010,101011			362			2201009.0	idea -	
sound and radio receiving units, combined; and	(6)		(e)			Alex lainteen	FOT 10	
visual, television sound and radio-	(8)		(8)			reperators,	PTCS.	
gram units, combined	3.1	222		-	_	3.1	222	
Unclassified	(a)	38	(4)	_ **	_	noisell	38	
Uniciassifica		00				Seed Postons	Diane	
						pruses Isot		
			200	* 6		ALC THE REAL PROPERTY.		
			723	1				

TABLE 23 (contd)

	England a	and Wales	Scot	tland	Great E	Great Britain		
	Quantity	Value	Quantity	Value	Quantity	Value		
Principal products (contd.)  Radio, telecommunication and electronic apparatus (contd.)	Th. Th. valves	£1000		£1000	Th. Th. sets valves	£'000		
Chassis, substantially assembled, for radio receiving sets, domestic, for radiograms, and for television receiving sets	50.9 251.8	388 84 113	_ 23 230	- {	50.9 251.8	388 84 113		
Television transmitters, complete	••	46	-	- one	on Eres Loomin	46		
Telegraph and telephone equipment, other than testing equipment					WDEFSERS  TOT STATES  TOT STAT	alectroble Radio-tran		
Complete installations; line apparatus for long distance communication (carrier, duplex and repeater) and speech input equipment	-	(a)		(a)		moo ohea		
Telephone instruments complete, sold		(4)	(a) ••	(4)	Thous.	13,966		
separately	••	(a)	••	(a)	1,148	<b>3,973</b> <b>392</b>		
Other equipment, including parts	••	(a)	••	(a)	unio iedinir neno iedan	5, 281		
Industrial radio frequency equipment (valve type), including heating and electronic control equipment	••	(a)		(a)	and parts, or other or other or other	208		
Signalling apparatus, including traffic signals  Sound reproducing	ad	(a)	0277.88	(a)	one netheles enparatus ministration	506		
apparatus (electrical)								
Complete  For sound films and	Thous.		101		14			
public address	14.1	1, 175 232	}	- {	14.1	1, 175 232		
For industrial relay	••	(a)	••	(a)	adias a	316		
Radio loudspeakers, sold separately		(a)	•	(a)	1,838.9	1,489 235		
Gramophones with electrical amplification		(a)	833	(a)	22.9	391		
Other descriptions, excluding record players		(a)	38	(a) {	30.0	149 77		
Unclassified; and electrical sound recording apparatus		498	_	-		498		
Parts	•	733	_	-	••	733		
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TABLE 23 (contd.)

niestra seum bas	England ar	nd Wales	Scot	land	Great Britain	
ouler values value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)		£!000	Thosay	£1000		£1000
Radio, telecommunication and electronic apparatus (contd.)				.028	edied sevel	
Radio testing equipment, not elsewhere specified		602	-	-		602
Telegraph and telephone testing equipment, not elsewhere specified		863		_	f.;b	863
Valves, electronic, other than X-ray valves, sold		000		POSISI S	MERRET SELECT	
separately  Complete			503			7,649
Transmitting and industrial and other electronic valves, including rectifying				2007 2007 2007 2007		
valves and stabilising tubes	Thous. 21,602	5, 305	-	-0_10mg	Thous. 21,602	5, 305
Parts		100	-	-383	503 .5.00	100
Cathode ray tubes, complete	105.3	443		-	105.3	443
Photo-electric cells and parts		50	-	-	20012 12	50
Resistors, sold separately				edita s		interest
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				mint a	min) Ejopbo	181081
Acoustic gramophones,	64.0	360	-	1 2 5 6 1 1	64.0	360
Record players	50.7	325	-	_instantes 1	50.7	325
Motors and other parts and accessories (excluding records)		(a)	••	(a)	gazaso :•al	1,648
Electric light bulbs, etc.				amotosa.	OLD SING MA	3000
Complete, ready for use				98080 92	of the significant	
Discharge lamps					to make or me	
Up to and including 5 watts, not exceeding 300 volts	561	45	-	eenatigu Ligilaaces	561	45
Fluorescent tubular lamps of all types other than high tension types for advertising purposes	••	(a)		(a)	1,937	833

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TABLE 23 (contd.)

nlasind seems ons	England a	and Wales	Sco	otland	Great	Britain -
	Quantity	Value	Quantity	Value	Quantity	Value
COOLS STREET CONTAIN	Thous.	£1 000		£'000	Thous.	£'000
Principal products (contd.)	de verves			bas and	os (varves) no lassergos (as	atneg
Electric light bulbs, etc. (contd.)				s (contd.)	Josephan Star	dosis
Complete, ready for use	darea.e.	74 800		don Juemo	tupe paisées Alere specifi	01bg9/ 0516
(contd.)				elicaq	ols one age	Seral
Discharge lamps (contd.)		598		300 s	rdamornoa sus	Belle Belle
Other discharge lamps				dener	dinggioe (a la	eviev
not exceeding 300 volts	258	408	_	_	258	408
Motor vehicle types;					exelv	mc0
flashlight case types, radio panel and cycle				nd transposit	enisilmenes S istroicos	
dynamo bulbs	37,111	773	-	ives.	37,111	773
Flash bulbs for photo-			thous.	ante i italia	ralves and as Cobes	988
graphic and other purposes, and other		001			TOWN I'm	
bulbs	-	(a)	8.801	(a)	124,716	5,537
Parts	• •	998	-	bne at	es oltrice ce	998
Electrical signs				(a)		1389
Luminous tubes and tube signs and parts thereof,		900	201.2	VARIABLE VARIABLE	1052 0108 (27	DUBLICAN
other than tubular lamps		(0)	Dog Art	(a)		OF
for lighting purposes	• •	(a)	'l ais	(a)	9.20	83
Other	••	32	-	- AUGUSTON	ong has serio	32
Waste products (other than scrap metals)		(a)		(a)	tectrical	48
Total goods (principal					There over the	ev lev
products)	raoug.	85,267	0.48	1,905	tid gramopio	87,171
Contract and other work carried out in Great Britain		179,858	_ r.oa		14.1 Preveic 6	176 0.000
(b)				parte and	dendo one e	959N
Electrical contract work		(a) (s)		Spinni	, 826.9 (abg	289 289
done as main contractors				3, 650,	alud'amaki a	dite It
Telegraph and telephone lines and works	1	2,266		sau re	stel ready L	2,266
Installation of radio					somer enterlo	2h
and telecommunication apparatus and appliances		(a)	1	(a)	n to applying	3,357
Includerries and			1 400	raince	20 TOV 608	
reso ting apparatus		499	+ + +	tonia:	Eis 16 agmai	
(8) 1,987 833	1 , 1	(s)	¥., 1	201 8	and since	163
ns 38480/1			1			

TABLE 23 (contd.)

	England	and Wales	Scot	cland	Great B	ritain
solav viloneno aklev	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)		£'000		£1000	(abanas) a	£1000
					w weijo bes	Jastunos
Contract and other work carried out in Great Britain (b) (contd.)					rand at the	00) (d)
Repair and maintenance work		588			adep arte	Chica
for customers		1,218		5	a Jpatinos	1,223
Research and development work		603			aligh ;	603
Total contract and other				1 Dita Smi	1 70 masm s	
work		(a)		(a)	retely recor	7,449
Less estimated value of		100			of tow )	Late
goods made by firms and separately recorded as					sa dourthoo	207
sold, which were used in this work		(a)		(a)	s appear to a	4,492
Total contract and other		828		Year a	Description 8	PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF
work exclusive of the		in the			ирано панао	E300
value of goods made by firms and used in the work		2,949		8	fantacien	2,957
Total principal products		88, 215		1,913	10000 16035	90,129
Other output	ertments	ded insent	avob .8			
Capacitors, complete and parts		273	bas bas loas	-	(101,000	273
Electric lighting fittings and wiring accessories	ESV	1,531	eulev _		••	1,531
Electric cooking apparatus	563	45	00013	_		45
Electric heating apparatus		279	-			279
Electric irons		132		100 880	Teconsider of	132
X-ray apparatus	•	176		2000	pe feet das da	176
Other electro-medical		2,0	187		tento line g soutpasnt	
apparatus		132	-	1	noi sunetan	132
Electrical machinery and plant		179		coir	of community	179
Other electrical goods and	COMERT		aps		son one the	sedet '
apparatus	••	7, 131	Case.	2	••	7,133
Scrap metals sold	••	588	95	6	olare que gual olare la gual	594
Other goods	••	3, 165	••	1 <sub>mos</sub>	releitan an	3, 165
Total goods (other output)	TOPS OF MAN	13, 632	18 No. 19 19 19 19 19 19 19 19 19 19 19 19 19	8	- Casado Legar G	13, 640
Contract and other work carried out in Great Britain (b)			dat.	JON 48	riso one est elitores ese	REGINOS SHEELES
Electrical contract work	-		588		- (9308 - 19308	5540
other than installation of radio and telecommunication apparatus and appliances, or on telegraph and						
telephone lines and works		423		2		426

TABLE 23 (contd.)

atailma septi one	England	and Wales	Scotland Scotland		Great B	ritain
	Quantity	Value	Quantity	Value	Quantity	Value
Other output (contd.)		£1000		£1000	nool sacuo	£1000
Contract and other work carried out in Great Britain (b) (contd.)			4 -5		and other wo	3 3873800 5317180 03) (0)
Other work done		389		8	agelelem bas	397
Total contract and other work done		813		10	eramojai Disvpo bus di	823
Less estimated value of goods made by firms and separately recorded as sold, which were used in this work	1003	291		renso i	ia dhamanan dan	292
Total contract and other work exclusive of the value of goods made by firms and used in the work		522		ni bezu	rosen yledana kusu-moteka a kusu-moteka a	531
Total other output		14, 154		17	extantaxe 3	14, 171
Total principal products and other output		102, 369		1,931	a Deer Gra er	104,300

#### TABLE 23 (contd.)

#### B. Government Departments

	England and	Wales		Scotland	Great Britain
188.13 9 9 9 9 9 9 9 9 9 9 9 9	Value	581		Value	Value
Principal products	£'000	39		£1000	£1000
Radio, telecommunication and electronic apparatus					Electric Seguing appais
Telegraph and telephone equipment, other than					F-ray apparatus
testing equipment	187				187
Line apparatus for long distance communication					sujeregos
(carrier, duplex and repeater) and speech input equipment	395			- bus	395
Signalling apparatus, including traffic signals	46			1	bloz 812 46 98198
Telegraph and telephone	-5		8		Spoot soods
testing equipment	79		13	T (auto	79
Components and parts, not elsewhere specified	115			- nistra	115
Total goods (principal products)	823	1 (4)		1-1	823

TABLE 23 (contd.)

	England and Wales	Scotland	Great Britain	
	Value	Value	Value	
Principal products (contd.)	£1000	£1000	£1000	
Contract and other work carried out in Great Britain	Cano and wastew b	is businglociand	ment syrikin	
Electrical contract work done as main contractors	Costan Costan	COLDINATO COST	Constitute Comme	
Telegraph and telephone lines and works	9, 259	1,122	10,381	
Installation of radio and tele- communication 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	3	the rough     **	il Liesis Colle	
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	(a)	non-(a)	na mord to without	
Electrical contract work done as main contractors	(8)	18) 2018	reeds and surely	
Electric power and lighting lines and works	494	49	543	
Other, not elsewhere specified	- 429	-mon do	ginte ons wos	
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	729	67	796	
establishments	39.035	4, 143	43, 178	
Total	00,000			

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

<sup>(</sup>b) Amount charged.

#### Purchased materials and fuel

#### Larger establishments

#### A. Private firms

					products (con	
Confesce and other work	England	and Wales	Scot:	land	Great B	ritain
(b) (eserce, ) - (c) (e	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.cwts.	£1000		£1000	Th.cwts.	£'000
Materials		Managa.		sphone iin		ue ess.
Iron and steel				les bas olba		ani
Bars and rods		aso.		ons aujerst	as moideoimum Liences	100 108
Alloy steel	••	(a)	••	(a)	11.5	124
Iron and non-alloy		189				5200
steel	••	(a)		(a)	81.6	146
Castings and forgings of	0.3	1 2	-	SJOUDO	0.3	1 2
alloy steel, in the rough	••	2				
Iron castings, in the rough		(a)		(a)	27.8	64
Angles, shapes and		731		lesidues.	lilejem "este 1950.	Checker.
sections of iron and		(a)		(a)	44.3	68
non-alloy steel		(a)	bceril.	(a)	ow resides bases	bananot
Wire of iron and non- alloy steel		(a)	Val	(a)	11.6	57
Plates and sheets of				0 9100 2704	SOURCE TROP	diam'
iron and non-alloy steel		(a)	tnes.	(a)	218.4	438
decorptic apparatus		1 224			, 8273 CV	10.8
Hoop and strip (including tape) of iron and non-				(-)	110.0	230
alloy steel	••	(a)	•   =	(a)	116.8	230
Sheets and strip of alloy steel		(a)		(a)	15.1	72
		(4)		d other work	ns spendago I	191
Other descriptions, except finished parts				deminienco	to pash pus a	ain.
Alloy steel	3.5	15 2	} -	- {	3.5	15
The state of the s	••	2300			3	303
Iron and non-alloy steel	to individu	mica (a) sold	entoled to s	(a)	117.5	87
Unclassified					-beatsmo-W	BOMA (
Alloy steel	••	138	-	-	••	138
Iron and non-					800	550
alloy steel	••	538	-	-	••	538

TABLE 24 (contd.)

onives, lieuronie, other	England and Wales		Scot	land	Great Britain		
ulas a de pures de la	Quantity	Cost	Quantity	Cost	Quantity	Cost	
terials (contd.)		£1000		£1000	Th. cwts.	£1000	
Aluminium and aluminium alloys	14.	05580	0.3			72800	
RECID BUT MELEVILLUS TRA						Actional range	
Plates, sheets, strip and circles		(a)	••	(a)	29.9	206	
Castings and forgings, rough dressed		(a)	242	(a) {	15.3	134 26	
Foil		(a)		(a)	2.5	51	
Other descriptions, except finished parts		(a)	2.150 AT	(a)	esetqueo .	181	
Unclassified		201		-	80188	201	
Brass (including all alloys of copper other than nickel alloys)		(a)		anthe		as ucl	
Plates, sheets and strip	1.	(a)		(a)	81.0	658	
Castings		(a)		(a) {	3.3	43	
Other descriptions, except finished parts		(a)	••	(a)	36,1	269	
Unclassified	•••	429	*-	3	TO THE TO	429	
Copper		(a)		(a)	170.6	1,608 78	
Lead and alloys of lead		(a)	••	(a) {	201.7	1,000	
Property of the Parket of the	Th. cwts.	1		4		. B. 1051	
Zinc and alloys of zinc	7.5	41 16	}	2338W 0	7.5	41 16	
Porcelain	. 35.4	(a)	s sugar	(a)	0.2	19 28	
Other ceramics		(a)		(a)	1.5	94 45	
Paper (excluding packing and wrapping)		(a)		(a)	36.7	317	
78 unclassified St		1 58 1 16	1		isassa		

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TABLE 24 (contd.)

	England	and Wales	Scot	land	Great Britain		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials (contd.)	Th. cwts.	£1000		£1000	Th. cwts.	£1000	
Rubber	a Draingdotland	BEERN C	as Sagland an		Dront 1	ritath	
Tubing (A) The same of the sam	0.3	14 57	-	Gost -	0.3	14 57	
Other descriptions	2.0	29 25	_	lavotta mod	2.0	29 25	
Synthetic resins				has ala	a stands	non-FC	
Lump and powder, including moulding powder	g 17.7	189	**	dia and	17.7	189	
All other forms	6.5	154 45	} -	- {	6.5	154 45	
Batteries, complete	Th. cells			209259	Th. cells		
High tension	2,167	33 7	}	- {	2, 167	33 7	
Low tension	••	(a)		(a)	520	23	
Unclassified, including combined high tension an low tension	d	13		(e) qi <u>q</u> ise.	ed as enserts and	and in	
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		(a)			116.8		
Complete  Transmitting and industrial		(a)	**	(a) 550	l lo svoils		
Not exceeding 50 watt	s	(a)	Ttp. cwts.	(a)	1,394	317	
or summer of	Thous.			(a)	1,094	317	
Over 50 watts anode dissipation	2	6	2.7	-	2	Porceint 6	
Other electronic valves including rectifying valves and stabilising	24.00	(a)	7.0		estater		
tubes		(a)	•••	(a)	9, 105	1,798	
Unclassified		85		12		97	

TABLE 24 (contd.)

	Eng	land an	nd Wales	bits .	Scotland			Great Britain		
	Quant	ity	Cost	(	Quantity	Cost	Quan	tity	Cost	
(aterials (Contd.)	Thou	s.	000 ع		The dwose	£'000	Tho	ous.	£'000	
Valves, electronic, other than X-ray valves (contd.)			th <sub>e</sub> salter			116			Es ine sam	
Parts			272		_	_	mutast!	GR 6/52	272	
Cathode ray tubes, complete		90	389		6 FTD tons	-		90	389	
Radio and television cabinets			58			(*	STIMES	M*) Tour-		
Of wood		•••	(a)		••	(a)		758	2,306	
Of plastic materials		0 •	(a)			(a)	tev bus	670	501	
Unclassified	The de	•••	567		Des Tell	-	1		567	
Radio and television parts and accessories, not else- where specified	185		(a)		2, 383	(a)	estat t	181, 231 100 • 184	6, 148	
Fractional horse- power motors	Thous. T	n. h. p.	(e)				Thous.	Th. h. p.		
Alternating current			(s)			· ma	E038	no fyn		
Not exceeding 1/3 h.p.	7 5	0.9	45 16	7	Ta_galla.	- {	5	0.9	45 16	
Over 1/3 h.p. but under 1 h.p.	3	804	28		-	ner used (	3	oviske) ni eeliä	28	
Direct current and universal (A.C. or D.C.)			4		Th. ou. ft.	- ETP (IS)	9.0380	Losmide		
Not exceeding 1/3 h.p.			(a)		Scandards	(a)	16 1	0.6	30 6	
Over 1/3 h.p. but under 1 h.p.	-5	2.500	2		382 1 67 76 00 11	-	-	Den S	2	
Unclassified		•••	39		4 2 T	-	••	•••	39	
Packing materials		•••	1,937		on so the	94		••	2,031	
Glass	Th. ci	wts.	48 8		Th. cwts.		Th	. cwts.	estev e	
Rod and tube		26.4	349 217	}	1.0	10	1	27.5	359 217	
Blown			(a)		·	(a)	cellic	33.3	426 664	
Other descriptions	**-		(a)		**••	(a)	CE att	3.2	39 47	
Unclassified		••	190		-	28_01	poor a!	101 e 200	190	

DS 38480/1

TABLE 24 (contd.)

	England	and Wales	Scotla	nd	Great Britain		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
.000/3aunim000/a	Th. cwts.	£'000	- Emons	£1000	Th. cwts.	£'000	
aterials (contd.)					( shalloo)	2181718US	
Mica				tenjo Rostovika:	hay yalves	K-nadz.	
Block and splittings		(a)	+4.	(a) {	1.0	40	
Block and spillings	6.10	(a)	oe ·	(a) {	nayo mbesa o	2:	
Built-up ("Micanite")	0.1	10 63	-	- {	0.1	10	
Unclassified	••	33	-	-	• •	33	
	1917				13.5	109	
Paint, enamel and varnish		(a)		(a)	Th.galls. 55.9	6	
			2000		Deltited	2 (50) 7	
	The section		1 1 1 2 2 2 2 1 1 1	BJTEQ	Th. lbs.	S Olbas	
Cotton yarn and thread	•••	(a)		(a)	801.6	25	
Silk yarn, thread and cloth	••	(a)	THOUSE THE DE DE	(a) {	59.7	2	
Rayon, nylon, etc., yarn, thread and cloth	••	(a)	. 1	(a) {	71.5	2	
Insulated wires	•••	(a)	7. 1.0.9	(a)	erceeding s h.o.	1,88	
Timber (excluding timber used for making into packing	*		*** ** 8	Tabing 5		570 U 1 450	
cases, etc., or for repair- ing returnable cases)	Th. cu. ft.			(a)	Th. cu. ft.	per1d72	
Hardwood	298	145		183-	298	14	
	Standards			s h.p.	Standards		
Softwood	1,335	64	_	_ 3	1, 335	evo 6	
					Th. sq. ft.		
Plywood	••	(a)	• • •	(a)	3, 958	22	
TROUGH OF OFFICE TO WATER	Th. sq. ft.						
Veneers	4,498	84	and at	100 - T	4,498	8	
Unclassified	10000	13	- 26.4	-	edaz be	8 50H 1	
Purchased components, not elsewhere specified	2	11,007		149		11, 15	
Replacement parts for firms' own machinery	••	(a)	••	(a)	noligiqueso	33	
Consumable tools bought as replacement		(a)	*****	(a)	bela lea	s.fo.m. 48	

TABLE 24 (contd.)

	England	and Wales	Scotla	and	Great Britain		
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
(ABU\$ 20 ;		£!000		£1000	( a his co.co) .45	\$1000	
Materials (contd.)	1008	calev po	s, bus Lyna				
All other purchased materials	valuners.	6, 237	golomer.	116	· ·	6,353	
Unclassified purchased	to al.	74	snoras-			74	
em look	Th. tons	9700	Th. tons		Th. tons	ome James	
Fuel and electricity		8	8.3			Laci0	
Coal	85.4	250	0.5	1	85.9	251	
Coke	260	(a)	**	(a)	27.1	107	
Electricity purchased (b)	Th.B.T.U. (kw.hrs.)	105	Th.B.T.U. (kw.hrs.)		Th.B.T.U. (kW.hrs.)		
From public supply	148,877	687	2, 353	9 6	151, 231	697	
From other sources	151	1	_	e_Cottenacy	151	fring 1	
Electricity obtained from other works under the same ownership		0, 586	2-0	8.000000	p purchased ma	ento Ila	
Motor spirit (petrol) and derv. fuel	Th. galls.	0.308.6	Th. galls.	·	Th. galls.	C. 7.	
Used for road vehicles	804	nija ist mola. 80	madri do sass	orosio to	. 809	81	
Used for other power purposes	86	basinas ai p isjos 4 ir	rangement to to the consumer of the consumer o	io al b <del>o</del> de	113340 INTO	4	
Other oil fuel (including creosote/pitch mixtures)	-glesse	(a)	in entron 1. to		3,366	124	
	Th. therms	246	Th. therms	2	Th. therms	248	
Gas purchased (c)	Th. cu. ft. 56, 557	11	Th. cu. ft. 6, 357	1	Th. cu. ft. 62,914	12	
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.)

Catorini (Militari e est	England a	and Wales	Scot	Land	Great Br	ritain
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Me grace one arrangement of	Th. tons	£1000		£'000	Th. tons	£1000
Fuel and electricity	вполаст	20 1	Th. tons			10
Coal {	0.5	5 1 2 2	-	- {	0.5	2
THE BETEUR (KNA BITSE)	Th.B.T.U. (kw.hrs.)	4.0	Th. B. T. U. (kw. hrs.)	a (d) De	Th.B.T.U. (kW.hrs.)	Flacer
Electricity purchased from public supply	1,530	2	24	- {	1,555	6 2
All other purchased materials and fuel	••	9,586	••	1,131	telty.optain works:under	10,717
Total	o de l'espace	9,602		1, 132	entry (inter-	10,734

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

### RADIO AND TELECOMMUNICATIONS COUNTRY TABLES Employment and remuneration

#### Larger establishments

#### A. Private firms

TABLE 25

Richard Control	Engl	and and Wales		green Territ	Scotland		Great Britain			
construction of the constr	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	
Males		HITE			ð.				e salayer.	
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 All ages	2,744 48,398	1,261 11,495	4,005 59,893	106 970	19 160	125 1, 130	2,850 49,368	1,280 11,655	<b>4,</b> 130 <b>61,</b> 023	
Total				at a divine it t	Banka San			Primare into 111	% date file	
Under 18	5,575	1,974	7,549	146	28	174	5,721	2,002	7,723	
All ages	99 <b>,</b> 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)	
000/3 G00/4	£1000	£1000	£'000	£1000	£1000	£1000	£1000	£1000	£1000	
Total remuneration	25,364	12,974	38, 338	297	150	447	25,661	13, 125	38, 785	

<sup>(</sup>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.

<sup>(</sup>c) Including gas obtained from other works under the same ownership.

### Monthly index of employment of operatives: Larger establishments

(average employment in 1948 = 100)

#### A. Private Firms

B. Government Departments

TABLE 25 (contd.)

W-2 44041												
	destre	Engl	and and Wal	es AAA	Books Les	Scotland		tariana Gr	eat Britain	N. 200, 235		
Material in	-iniek .evilie Labiade Labias Labias Labias Labias Labias Labias	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total		
Males				13	14.	6 411				168881		
Under 18	22.0	2,006	63	2,069	191	13	204	2,197	76	2, 273		
All ages	3	49,860	6,697	56,557	5,082	773	5,855	54,942	7,470	62,412		
Females			1 22	Barranen	erj.	Thus, To				enlares		
Under 18	3	34	230	264	5	24	29	39	254	293		
All ages	- The state of the state of	914	3,429	4,343	17	419	436	931	3,848	4,779		
Total	S WALL O						45			40003		
Under 18	3 300 3	2,040	293	2,333	196	37	233	2,236	330	0.500		
All ages		50,774	10,126	60,900	5,099	1, 192	6,291	55,873	11,318	2,566		
(4) (8) (8)	(30)	(b)	). (6)	(d)	(b)	(b)(e)	(d)	(b)	11,010	67,191 (d)		
Total remunerat	ion	£'000 17,059	£1000 4,916	£1000 21,975	£'000 1,717	£1000 536	£1000 2,253	£'000 18,776	£1000 5,452	£'000 24,228		

- (a) Number at September 25, 1948.
- (b) Including the following operatives employed on outside work of erection, fitting, etc.:-

E 88 5 700 15 22 15 9 15 1 15 15 15 15 15 15 15 15 15 15 15 1	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. Pri	vate firms		B. Government Departments				
The Resident	Average n	umber of outwo	rkers employed	Total amount	Average n				
	Males	Females	Total	paid to outworkers	Males	Females	Total	paid to outworkers	
England and		1 22 20,000	- 4-11	£'000		The Later Control	(T	ล1000	
Wales	2	108	110	20	1	105	106	5	
Scotland	32		ters for the				_		
Great Britain	2	108	110	20	1	105	106	5	

#### TABLE 26

Month	M	onthly index	(a)	Month	Mor	thly 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			
July	96.8	98.5	96.8	this trade			22 (27)
				index	47.9	33.1	47.7

#### B. Government Departments

#### TABLE 26 (contd.)

Month	M	onthly index	(b)	Month	Mor	Monthly index (b)			
	England and Wales	Scotland	Great Britain	110HOH	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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1952

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