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BOARD OF TRADE

FINAL REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1948

Volume 3

Trade L

RAILWAY LOCOMOTIVE SHOPS  
AND LOCOMOTIVE MANUFACTURING

*Presented by the Board of Trade to Parliament  
in pursuance of the Statistics of Trade Act, 1947  
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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 In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 0d. NET

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\* Not applicable to this trade

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING TRADE

THIS REPORT on the Railway Locomotive Shops and Locomotive Manufacturing Trade relates to establishments engaged wholly or mainly in the manufacture of locomotives, railway signals, turntables, automatic couplings and brake gear (including repair work other than light repairs carried out in running sheds), steam traction engines, steam wagons and road rollers.

This trade corresponds to minimum list headings 84 and 85 in the Standard Industrial Classification.

In the reports on the 1935 census the activities of all railway establishments engaged on productive work, i.e., civil engineering work on railway property, the manufacture and repair of locomotives, carriages, wagons and railway equipment for the permanent way, and all miscellaneous manufacturing were included in a single report. For the purpose of that report the railway companies were not required to furnish separate detailed returns on an establishment basis and, accordingly, it is not possible to reclassify the particulars for 1935 strictly in accordance with the Standard Industrial Classification. An attempt has, however, been made to compile, from the information available, figures corresponding very roughly with those for 1948. The activities of railway companies were not covered in the 1937 Inquiry.

Both for 1935 and 1948 the output of railway locomotive shops is valued at cost, i.e., a sum calculated to cover the cost of labour and materials together with such a proportion of the general establishment charges properly applicable to the output concerned but without any allowance for profit. The output of other locomotive manufacturers is, however, valued at selling price and therefore includes profit.

Any establishments in Northern Ireland are excluded in 1948. A very small output in this trade by railway companies there was recorded for 1935; no production by other locomotive manufacturers was recorded there for 1937 or 1935.



VEHICLES  
RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING TRADE

Summary  
Larger establishments

TABLE 1

	Railway locomotive shops		Other locomotive manufacturers		
	1948 (a)	1935 (b)	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000
Gross output (production)	38,239	13,000	22,823	6,919	4,878
Cost of materials and fuel used	12,645	4,500	10,852	3,323	2,347
Payment for work done on materials given out	94	..	616	8	4
Net output	25,500	8,500	11,355	3,588	2,527
Wages and salaries of persons employed	23,035	..	7,611	..	..
	No.	No.	No.	No.	No.
Average number of persons employed	64,856(c)	44,800	23,100(c)	17,212	13,931
	£	£	£	£	£
Net output per person employed	393	190	492	208	181
	£'000	£'000	£'000	£'000	£'000
Stocks at end of year					
Finished products and work in progress	3,342	..	9,756	..	..
Materials and fuel	10,955	..	2,456	..	..
	No.	No.	No.	No.	No.
Number of establishments	355	..	39	..	26

(a) Great Britain only.

(b) United Kingdom.

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

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

	Railway locomotive shops		Other locomotive manufacturers		
	1948	1935	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000
Output of establishments in this trade					
Total value of sales (1948) or production (1937 and 1935)					
Principal products (see Table 8)	31,222	12,188	17,244	5,202	4,269
Other output (see Table 10)	6,956	812	4,354	1,190	576
Adjustment for changes of stocks and work in progress	+ 61(a)		+1,384(a)	+ 527(b)	+ 33(b)
Less payment for transport by other firms	38,239	13,000	22,982	6,919	4,878
Gross output (production)	38,239	13,000	22,823	6,919	4,878
Materials and fuel used by establishments in this trade					
Purchases (see Table 13)	15,065	4,500	11,252	3,323	2,347
Adjustment for changes in stocks	-2,420(a)		- 400(a)		
Materials and fuel used	12,645	4,500	10,852	3,323	2,347

(a) See Table 14.

(b) Work in progress only.

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Summary, 1948  
Small establishments in Great Britain

TABLE 2

	Railway locomotive shops	Other locomotive manufacturers
Number of returns	-	2
Average number of persons employed (a)		
Males	-	13
Females	-	-
Total	-	13

(a) Including working proprietors.

## Estimated average employment, 1948

## All establishments in Great Britain

TABLE 3

	Railway locomotive shops	Other locomotive manufacturers
As returned by establishments		
Employing on average more than ten persons (a)	64,856	23,100
Employing on average ten persons or less (b)	-	13
Estimated average employment in establishments not making satisfactory returns	-	-
Average employment in all establishments	64,856	23,113

(a) See Tables 1 and 15.

(b) See Table 2.

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## VEHICLES

Analysis by size, 1948

Larger establishments in Great Britain

(i) Railway locomotive shops

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	142	1,115	767	1,921	730	59	789	399
25-49	86	1,714	1,214	3,003	1,124	94	1,219	404
50-99	58	2,335	1,635	4,137	1,519	121	1,640	395
100-199	39	2,992	2,099	5,275	1,953	151	2,104	398
200 and over	30	30,083	19,785	50,520	15,839	1,444	17,283	392
Total	355	38,239	25,500	64,856	21,166	1,869	23,035	393

(ii) Other locomotive manufacturers

TABLE 4 (contd.)

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-49	9	225	97	162	36	15	50	599
50-99	7	695	283	529	104	56	160	536
100-199	4	615	337	558	123	50	173	604
200-299	5	981	605	1,140	277	77	354	530
300-749	6	3,434	1,656	2,962	721	230	951	559
750 and over	8	16,872	8,377	17,749	4,649	1,275	5,924	472
Total	39	22,823	11,355	23,100	5,909	1,702	7,611	492

Analysis by standard region, 1948

Larger establishments in Great Britain

(i) Railway locomotive shops

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Northern	32	3,311	2,361	9.3	5,722	2,014	101	2,115
East and West Ridings of Yorkshire	38	3,364	2,166	8.5	5,499	1,818	128	1,947
North Midland	36	4,126	2,437	9.6	6,549	2,033	244	2,277
Eastern	18	462	346	1.4	785	287	19	307
London and South Eastern	31	4,170	2,935	11.5	6,942	2,392	211	2,603
Southern	8	1,661	1,107	4.3	2,489	828	81	909
South Western	20	4,821	2,998	11.8	8,139	2,459	276	2,735
Midland	24	1,145	812	3.2	1,970	713	57	769
North Western	60	9,837	6,483	25.4	16,311	5,111	453	5,564
Total England	267	32,897	21,645	84.9	54,406	17,655	1,570	19,225
Wales	43	1,148	851	3.3	2,279	753	65	818
Scotland	45	4,194	3,004	11.8	8,171	2,758	235	2,992
Great Britain	355	38,239	25,500	100.0	64,856	21,166	1,869	23,035



## (ii) Other locomotive manufacturers

TABLE 5 (contd.)

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England and Scotland								
East and West Ridings of Yorkshire	4	1,164	589	5.2	1,255	292	95	387
London and South Eastern	7	639	355	3.1	611	134	70	204
Midland	4	517	247	2.2	528	126	34	160
North Western	10	6,881	3,426	30.2	6,743	1,834	430	2,263
North Midland; Eastern; Southern; and South Western	7	5,430	2,709	23.9	4,503	988	538	1,526
Northern; and Scotland	7	8,192	4,030	35.5	9,460	2,535	536	3,071
Total England and Scotland	39	22,823	11,355	100.0	23,100	5,909	1,702	7,611
Wales	-	-	-	-	-	-	-	-
Great Britain	39	22,823	11,355	100.0	23,100	5,909	1,702	7,611

TABLE 6 - Analysis according to specialisation within the trade, 1948

## Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

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

## (i) Railway establishments

TABLE 8

	1948 (a) Sales			1935 (b) Production		
	Quantity	Value (c)	Entries	Quantity	Value (c)	
Locomotives, rail	No.	Tons	£'000	No.	No.	Tons
Main line						
Steam	272	23,846	3,427	..	375	26,270
Electric	1	52	20	..	-	-
Shunting (railway)						
Steam	27	1,053	140	..	-	-
Diesel-electric	7	305	79	..	-	-
Boilers for locomotives	270	3,812	456	..	..	73,626
Other parts of locomotives, except axles, tyres and wheels	16	..	20	..	..	533
Railway signals (mechanical) (d)	..	..	452	7	..	..
Repair work						
Locomotives, rail						
Steam			25,941	24		7,015
Diesel, mechanical			3	..		-
Diesel-electric			34	6		-
Electric			1	..		4
Other			17	8		41
Work done for the trade or on commission			11	..		-
Total			31,461	..		12,188
Less sales (or production) in other trades (see Table 9(1))			238	..		..
Total principal products of this trade sold or made by establishments in the trade			31,222	24		12,188



## (ii) Other establishments.

TABLE 8 (contd.)

	1948 Sales			1937 Production			1935 Production			
	Quantity		Value	Entries	Quantity		Value	Quantity		Value
	No.	Tons	£'000		No.	No.	Tons	£'000	No.	Tons
Locomotives, rail										
Main line (f)										
Steam	372	35,889	7,313	..	290	23,936	1,835	342	29,510	1,885
Electric	13	867	251	..	74	1,521	158	16	433	69
Other	-	-	-	-						
Shunting (railway)										
Steam	18	754	252	..	..	..	(g)	..	..	(g)
Diesel, mechanical	54	..	267	..						
Industrial, contractors' and light railway										
Steam	99	2,178	481	7	586	5,184	505	357	2,641	239
Other and unclassified	786	4,892	1,253	12						
Boilers for locomotives	202	2,722	549	15	..	2,936	253	..	9,487	637
Other parts of locomotives, except axles, tyres and wheels	..	10,509	1,766	75	..	5,860	514	..	..	216
	..	..	2,045		..	..	..	254	..	..
Railway signals (mechanical) (d)	..	7,085	460	19	..	..	..	..	..	..
	..	..	457		..	..	..	..	..	..
Turntables (d)	..	914	76	9	..	4,146	211	..	3,286	173
	..	..	11		..	..	..	1,316	..	..
Brake gear and automatic couplings (d)	..	1,060	142	7	..	..	..	..	..	..
	..	..	814		..	..	..	..	..	..
Road rollers										
Complete	1,650	8,955	2,442	7	854	4,387	436	625	3,196	262
Parts	..	..	613(h)	14	..	708	67	..	..	72
Steam traction engines and steam wagons (d)	-	-	-	-	..	..	50(1)	..	..	39(1)
Model locomotives (for exhibition, etc. purposes - not toys) and parts thereof (d)(j)	..	..	4	..	..	..	(g)	..	..	(g)

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value		Quantity	Value	Quantity	Value
		£'000	No.				
Repair work (k)							
Locomotives, rail							
Steam		1,116	18	}	187	93	
Diesel, mechanical		32	5				
Other and unclassified		77	25				
Other repair work and work done for the trade or on commission		97	15				
Total		20,519	..		5,812		4,616
Less sales (or production) in other trades (see Table 9(11))		3,275	..		610		347
Total principal products of this trade sold or made by establishments in the trade		17,244	31		5,202		4,269

- (a) Great Britain only.  
(b) United Kingdom.  
(c) Valued at cost in both years, i.e., sums calculated to cover the cost of labour and materials, together with the proportion of establishment charges properly attributable to the work carried out.  
(d) So far as recorded separately.  
(e) Recorded as "Signals, signal boxes, etc."  
(f) For 1937 and 1935 recorded as main line (standard gauge) locomotives and included shunting locomotives.  
(g) Not recorded separately.  
(h) Including parts of steam wagons, so far as recorded separately.  
(i) Including parts.  
(j) For toy locomotives see the Toys and Games Trade (Volume 11, Trade D).  
(k) Amount charged in 1948 and amount received in 1937 and 1935.



## VEHICLES.

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

Larger establishments

(i) Railway establishments (a)

TABLE 9

	1948 Sales		
	Quantity	Value	Entries
		£'000	No.
Parts of locomotives, except boilers, axles, tyres and wheels	..	28	..
Railway signals (mechanical)	..	200	6
Work done for the trade or on commission		11	..
Total		238	..

(ii) Other establishments

TABLE 9 (contd.)

	1948 Sales			1937 Production			1935 Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value	Value	
	Tons	£'000	No.	No.	Tons	£'000	No.	Tons	£'000
Locomotives, rail									
Main line									
Steam	-	-	-	5	252	19	-	-	-
Other	-	-	-	24	377	64	8	84	13
Shunting (railway)									
Diesel, mechanical									
Industrial, contractors' and light railway	..	775	10	283	1,445	165(b)	133	633	69(b)
Boilers for locomotives									
Other parts of locomotives (except axles, tyres and wheels), and road rollers and parts thereof	{ 3,914	{ 1,032	{ ..	{ 1,985	{ 169(c)	{ 1,144	{ 87(c)		
Railway signals (mechanical), turntables, brake gear and automatic couplings	{ ..	{ 630	{ ..	{ ..	{ 61	{ ..	{ 93		
Steam traction engines and steam wagons	{ 7,447	{ 488	{ 28	{ 982	{ 37	{ ..	{ 25		
Model locomotives (for exhibition, etc. purposes - not toys) and parts thereof	{ ..	{ 245	{ ..	{ ..	{ 45	{ ..	{ ..		
Repair work (d)									
Locomotives, rail		79	24						21
Other repair work		22	5						
Total		3,275	..		610				347

(a) Comparable figures for 1935 are not available as the railway companies were not required to furnish returns on an establishment basis. See introductory notes.

(b) Excluding boilers for locomotives.

(c) Including boilers for locomotives.

(d) Amount charged in 1948 and amount received in 1935.

## RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING

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

Larger establishments

TABLE 10

	Railway locomotive shops (a)		Other locomotive manufacturers			
	1948 Sales		1948 Sales		1937 Production	1935 Production
	Quantity	Value	Quantity	Value	Value	Value
	Tons	£'000	Tons	£'000	£'000	£'000
Railway points, switches and crossings	..	321	-	-	-	-
Railway chairs	{ 18,049	{ 174	-	-	-	-
	{ ..	{ 49				
Railway carriages, wagons and trucks, and parts thereof (except axles, tyres and wheels)	{ 768	{ 108	460	116	171	49
	{ ..	{ 13(b)	{ ..	{ 51		
Engineering castings	..	72	..	32		
Other engineering products	..	117	..	71	(c)	(c)
Electrical goods and appliances	..	113	..	732		
Machinery and parts						
Boilers, (other than for locomotives) and boiler-house plant	-	-	..	458	80	14
Prime movers	-	-	No.			
			36			
			H.D.	150		
			11,660	45		
			..			
			Tons		294	321
Agricultural, mining, road-making and earth moving machinery	-	-	1,791	610		
			..	123		
Other	-	-	3,027	681		
			..	470		
Oil refining	..	54	-	-	-	-
Scrap and waste sold						
Scrap metals	Th. tons		Th. tons			
Iron and steel	171.8	873	24.4	79	61	27



TABLE 10 (contd.)

	Railway locomotive shops (a)		Other locomotive manufacturers			
	1948 Sales		1948 Sales		1937 Production	1935 Production
	Quantity	Value	Quantity	Value	Value	Value
Scrap and waste sold (contd.)	Th. tons	£'000		£'000	£'000	£'000
Scrap metals (contd.)						
Brass	5.2	508	..	30	} 30	} 12
Copper	4.9	531	..	18		
Other	..	585	..	27		
Other waste products	..	25	..	2	} 554	} 153
Other goods	-	-	..	415		
Work done		3,414		243(d)		
Total		6,956		4,354	1,190	576

(a) For 1935, details of production appropriate to this table are not available (see introductory notes). In addition to the details available which are shown in Table 8, other output for that year is estimated as £812,000.

(b) Parts only.

(c) Included in the figure shown for "other goods and work done".

(d) Amount charged.

## Analysis of sales, 1948

## Larger establishments in Great Britain

TABLE 11

	Railway locomotive shops		Other locomotive manufacturers	
	Sales	Percentage of total sales	Sales	Percentage of total sales
	£'000		£'000	
Sales (or transfers) to other organisations under the same control	6,844	78.1	638	3.2
Sales to independent buyers				
Exports invoiced directly overseas	-	-	6,196	30.8
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	-	-	5,618	27.9
His Majesty's Government and Local Authorities (other than productive establishments)	-	-	805	4.0
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	478	5.4	6,347 (a)	31.5
Wholesalers, merchants and other agents for resale	1,446	16.5	398 (b)	2.0
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	-	-	} 130	} 0.6
Other businesses (including farmers) and institutions of all kinds	-	-		
Members of the public, including employees	1	-		
Total sales to independent buyers	1,924	21.9	19,495	96.8
Total	8,768	100.0	20,133	100.0

(a) Including sales to British Railways.

(b) Of this total £330,000 was recorded as divided between £166,000 for export and £164,000 for other sales.



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

TABLE 12

	Production (b)(c)		Exports (d)		Retained imports (e)	
	No.	£'000	No.	£'000	No.	£'000
Locomotives, rail						
Main line and shunting locomotives						
Electric (including diesel-electric)	{ 1948 21 349 1935 .. .. 4 51					
Steam	1948 689 11,131		280 5,163			
Diesel, mechanical	1948 54 267		27 276			
Total	{ 1948 764 11,748 1935 733 3,721		351 6,599			1 5
Industrial, contractors' and light railway	{ 1948 885 7,070 1935 357 2,641		674 4,418			1 3 8 21
Parts of locomotives		£'000		£'000		£'000
Boilers	1948 488 1,026		190 480			.. 264
Other parts, except axles, tyres, wheels and electric motors	1948 .. 4,672		.. 2,005			.. 264
Total parts of locomotives	{ 1948 .. 5,698 1935 .. 4,040		.. 2,485			.. 41
Road rollers and parts	{ 1948 .. 3,055(f) 1937 .. 529		.. 1,891			.. 6

(a) As output recorded in 1937 was largely incomplete, comparison is made with 1935, except for road-rollers, exports and imports of which were not recorded separately in 1935. 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 and 1935.

(c) Including sales (or production) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) Including parts of steam wagons.

Purchased materials and fuel  
Larger establishments

TABLE 13

	Railway locomotive shops (a)		Other locomotive manufacturers					
	1948		1948		1937		1935	
	Materials and fuel purchased		Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials								
Iron and steel								
Bars and rods								
Alloy steel	2.9	129	2.5	150	9.6	125	7.8	84
Iron and non-alloy steel	29.3	725	19.1	483				
Plates, sheets and strip					15.3	193	13.9	140
Alloy steel	3.0	59(b)	2.5	78(b)				
Iron and non-alloy steel	28.6	593	26.8	535				
Wrought tubes of iron and non-alloy steel	{ 0.6 47 .. 18		{ 1.4 135		1.5	64	1.4	56
Castings in the rough (c)								
Iron	35.5	742	12.0	696	5.7	130	5.9	112
Alloy steel	2.5	52	0.9	188	6.1	194	6.9	202
Non-alloy steel	1.4	122	5.9	536				
Machined castings, iron and steel	1.5	152	0.6	125	..	(d)	..	(d)
Forgings in the rough (c)								
Alloy steel	-	1	0.2	21	4.5	95	6.9	112
Iron and non-alloy steel	7.3	227	6.0	283				
Pig iron	..	(d)	..	(d)	10.2	60	8.8	45
Other descriptions, except finished parts								
Alloy steel	-	1	-	12	6.9	101	..	(d)
Iron and non-alloy steel	23.8	302	{ 6.1 93 .. 128					
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) in all forms, except finished parts	Th. cwts.		Th. cwts.		Th. cwts.		Th. cwts.	
	113.1	823	{ 28.8 259 .. 65		47.9	195(e)	27.4	94(f)



TABLE 13 (contd.)

	Railway locomotive shops (a)		Other locomotive manufacturers					
	1948		1948		1937		1935	
	Materials and fuel purchased		Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000	Th.cwts.	£'000
Copper								
Plates, sheets and strip	138.1	993	25.9	245	17.0	87	41.2	126
Other descriptions, except finished parts	92.5	804	15.0	110	11.9	42		
Tin in blocks, ingots, bars and slabs	7.1	188	2.0	52	1.8	20	1.5	17
Timber (including wood for packing cases)	Th.cu.ft.		Th.cu.ft.					
Hardwood	5.4	4	23.2	20				
Softwood	339	29	1,531	109		35		(d)
Consumable tools bought as replacement	..	317	..	228	..	30		
Paint, enamel and varnish	Th.galls.		Th.galls.					
	65.4	48	47.9	31				
	..	10	..	25				
Wheels and axles, complete	No. of sets		..	(g)				
	185	16	..					
Tyres and axles	Th.tons		Th.tons					
	20.5	888	4.2	181				
			..	38				
Steel springs, laminated or spiral			0.4	46				
	2.1	177	..	64				
Superheater equipment, including elements			0.5	84				
	3.1	335	..	119	..	(d)	..	(d)
Electric lighting equipment			..	84				
	..	95	..					
Boiler tubes			3.0	255				
	11.1	785	..					
Diesel engines, complete	No.		No.					
	5	47	440	155				
			..	20				
Electric generators			..	(g)				
	16	1	..					
Gearboxes			50	31				
	-	-	..	7				
Other purchased components			..	3,358				
	..	2,908	..					

TABLE 13 (contd.)

	Railway locomotive shops (a)		Other locomotive manufacturers					
	1948		1948		1937		1935	
	Materials and fuel purchased		Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)		£'000		£'000		£'000		£'000
Replacement parts for own machinery (other than machined castings)	..	111	..	80				
All other purchased materials	..	2,234	..	1,453	..	1,718	..	1,206 (h)
Fuel and electricity	Th.tons		Th.tons		Th.tons		Th.tons	
Coal	114.6	289	58.8	158	74.3	78	65.4	53
Coke	38.3	144	20.9	85	21.1	32	18.3	23
Electricity purchased (1)	Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)	
From public supply	66,467	315	51,025	192				
From other sources	-	-	-	-	29,380	85	21,858	69
Electricity obtained from other works under the same ownership	7,412	39	-	-				
Motor spirit (petrol) and deriv. fuel	Th.galls.		Th.galls.					
Used for road vehicles	48	4	107	9	..	(d)	..	(d)
Used for other power purposes	311	14	161	7				
Other oil fuel (including creosote/pitch mixtures)	2,437	84	3,759	132	828	14	478	8 (j)
Gas purchased	Th.therms		Th.therms					
From public supply	1,013	35	1,720	52				
	Th.cu.ft.							
	107,158	21						
From other sources	-	-	-	-	..	25	..	(d)
Gas obtained from other works under the same ownership	Th.therms							
	573,777	120	-	-				
All other purchased fuel	..	17	..	2				
Total		15,065		11,252		3,323		2,347

(a) Details of the materials and fuel used in 1935 are not available. The estimated total cost was £4,500,000.

(b) Described as sheets and strip of alloy steel.

(c) Not described as being in the rough in 1937 and 1935.

(d) Not recorded separately.

(e) Excluding nickel silver.

(f) Non-ferrous alloys in all forms.

(g) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given. The amounts are included with "All other purchased materials".

(h) Including fuel not specified separately.

(i) The total quantity of electricity consumed in 1948 by railway locomotive shops was 74,233,000 B.T.U. units including 355,000 generated in the same works. Owing to the risk of disclosure similar information cannot be given for other locomotive manufacturers.

(j) Described as "Heavy fuel oil".



## VEHICLES

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

Larger establishments in Great Britain

TABLE 14

	Railway locomotive shops				Other locomotive manufacturers			
	At beginning of year		At end of year		At beginning of year		At end of year	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Finished products	-	£'000 -	-	£'000 -	..	£'000 558	..	£'000 787
Work in progress		3,281		3,342		7,814		8,969
Total finished products and work in progress		3,281		3,342		8,372		9,756
Materials and fuel	Th. tons		Th. tons		Th. tons		Th. tons	
Iron and non-alloy steel in all forms, except finished parts	67	1,650	76	1,907	17	546	22	689
Other descriptions of materials and fuel	..	6,886	..	9,048	..	1,511	..	1,787
Total materials and fuel		8,536		10,955		2,056		2,456

## Employment and remuneration (a)

Larger establishments

(i) Railway locomotive shops (b)

TABLE 15

	Average number of operatives	Administrative, technical and clerical employees (c)	Total
	1948	1948	1948
Males			
Under 18	2,769	104	2,873
All ages	59,257	3,577	62,834
Females			
Under 18	50	245	295
All ages	496	1,526	2,022
Total			
Under 18	2,819	349	3,168
All ages	59,753	5,103	64,856 (d) (e)
Total remuneration	£'000 21,166	£'000 1,869	£'000 23,035

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(ii) Other locomotive manufacturers

TABLE 15 (contd.)

	Average number of operatives			Administrative, technical and clerical employees (c)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	1,091	2,301	1,628	103	204	127	1,194	2,505	1,755
All ages	18,208	14,492	11,573	3,046	1,821	1,595	21,254	16,313	13,168
Females									
Under 18	37	68	35	183	140	83	220	208	118
All ages	751	320	274	1,091	579	489	1,842	899	763
Total									
Under 18	1,128	2,369	1,663	286	344	210	1,414	2,713	1,873
All ages	18,959	14,812	11,847	4,137 (f)	2,400	2,084	23,096 (d) (e) (f)	17,212	13,931
Total remuneration	£'000 5,909	..	..	£'000 1,702	..	..	£'000 7,611	..	..

(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):-

	Railway locomotive shops		Other locomotive manufacturers	
	Males	Females	Males	Females
Canteen workers	6	242	5	113
Other workers	69	50	26	29

(b) Details of employment for 1935 are not available. For the estimated total number of persons employed see Table 1.

(c) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to:-

Railway locomotive shops	£553,000
Other locomotive manufacturers	£185,000

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

	Railway locomotive shops		Other locomotive manufacturers	
	Operatives	Administrative, technical and clerical employees	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	-		18	
Maintenance and repair of firms' buildings, but not plant	200		94	
Research work not directly connected with current production however charged	-	5	7	10

(f) There were, in addition, 4 male working proprietors in 1948. Working proprietors are included in the 1937 and 1935 figures.

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## Wages and salaries paid, 1948 (a)

## Larger establishments in Great Britain

## (i) Railway locomotive shops

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	21,166	21,166	25.3	25.1	24.3	25.3	100.0
Administrative, technical and clerical employees	1,869	1,869	24.8	24.8	24.9	25.5	100.0
Total	23,035	23,035	25.3	25.1	24.3	25.3	100.0

## (ii) Other locomotive manufacturers

TABLE 16 (contd.)

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	5,909	4,397	24.2	24.9	23.2	27.6	100.0
Administrative, technical and clerical employees	1,702	968	23.8	24.0	24.2	28.0	100.0
Total	7,611	5,364	24.2	24.8	23.4	27.7	100.0

(a) Including bonus and commission payments.

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

## Larger establishments in Great Britain

The total amounts paid for work done on materials given out were:-

Railway locomotive shops	£94,000
Other locomotive manufacturers	£616,000

## Payments for certain services, 1948

## Larger establishments in Great Britain

TABLE 18

	Railway locomotive shops	Other locomotive manufacturers
	Amount paid	Amount paid
	£'000	£'000
Repair and maintenance		
Of buildings	73	73
Of plant, machinery and vehicles	26	97
Unclassified	-	83
Hire of plant, machinery and vehicles	54	24(a)
Advertising and market research		
Advertising in newspapers, magazines and periodicals	-	14
Other advertising services (poster display, despatch of circulars, etc.) and market research	-	6
Unclassified	-	38
Payments made for research work		
To research associations	-	-
To universities, institutions, academic bodies and similar agencies	-	-
To other commercial concerns	-	6
Postage, telephone, telegrams and cables	2	38
Commercial insurance premiums	7	61
Rates (excluding water rates) payable in the year	78	25(b)

(a) Including £8,000 recorded as "Hire of plant, machinery and vehicles, including space".

(b) Including £7,000 recorded as "Rates (including water rates) payable in the year".



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

## Larger establishments in Great Britain

TABLE 19

	Railway locomotive shops			Other locomotive manufacturers		
	Acquisitions		Disposals	Acquisitions		Disposals
	New	Second-hand		New	Second-hand	
	£'000	£'000	£'000	£'000	£'000	£'000
Plant and machinery	492	36	19	509	67	25
Vehicles	11	-	1	40	3	4
Total	503	36	20	550	70	29

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

## Larger establishments in Great Britain

TABLE 20

	Railway locomotive shops	Other locomotive manufacturers
	£'000	£'000
1. Capital expenditure on building work (a)	64	90
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	10	34
(11) Estimated capital value of leasehold buildings and land newly occupied in the year	-	
Total of headings 1 and 2	74	124
3. Existing buildings and land relinquished (c)	-	-
4. Headings 1 and 2 less heading 3	74	124

- (a) Excluding site value which, where appropriate, is included in heading 2 (1).  
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.  
 (c) Including property destroyed or abandoned.

1948

Note - Other locomotive manufacturers - There were no larger establishments in Wales in the register for this trade. Owing to the risk of disclosure of information relating to individual firms separate particulars for Scotland cannot be given.

## Summary

## Larger establishments

TABLE 21

	Railway locomotive shops				Other locomotive manufacturers
	England	Wales	Scotland	Great Britain	Great Britain
	£'000	£'000	£'000	£'000	£'000
Gross output (production)	32,897	1,148	4,194	38,239	22,823
Cost of materials and fuel used	11,162	297	1,186	12,645	10,852
Payment for work done on materials given out	89	-	4	94	616
Net output	21,645	851	3,004	25,500	11,355
Wages and salaries of persons employed	19,225	818	2,992	23,035	7,611
Average number of persons employed	No. 54,406	No. 2,279	No. 8,171	No. 64,856	No. 23,100
Net output per person employed	£ 398	£ 374	£ 368	£ 393	£ 492
Stocks at end of year	£'000	£'000	£'000	£'000	£'000
Finished products and work in progress	3,086	24	232	3,342	9,756
Materials and fuel	9,700	100	1,155	10,955	2,456
Number of establishments	No. 287	No. 43	No. 45	No. 355	No. 39

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

	Railway locomotive shops				Other locomotive manufacturers
	England	Wales	Scotland	Great Britain	Great Britain
	£'000	£'000	£'000	£'000	£'000
Output of establishments in this trade					
Total value of sales (see Table 23)	32,854	1,152	4,172	38,178	21,596
Adjustment for changes in stocks and work in progress	+ 43	- 4	+ 22	+ 61	+ 1,384
	32,897	1,148	4,194	38,239	22,982
Less payment for transport by other firms	-	-	-	-	158
Gross output (production)	32,897	1,148	4,194	38,239	22,823
Materials and fuel used by establishments in this trade					
Purchases (see Table 24)	13,418	313	1,334	15,065	11,252
Adjustment for changes in stocks	- 2,255	- 16	- 148	- 2,420	- 400
Materials and fuel used	11,162	297	1,186	12,645	10,852

TABLE 22 - Summary: Small establishments

## (i) Railway locomotive shops

There were no small establishments in the register for this trade.

## (ii) Other locomotive manufacturers

See Table 2. There were no small firms in Wales or Scotland in the register for this trade.



## Sales in the trade

## Larger establishments

TABLE 23

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000	No.	£'000
Principal products								
Locomotives, rail								
Main line								
Steam	272 Tons 23,846	3,427	-	-	272 Tons 23,846	3,427	372 Tons 35,889	7,313
Electric	No. 1 Tons 52	20	-	-	No. 1 Tons 52	20	No. 13 Tons 867	251
Shunting (railway)								
Steam	No. 27 Tons 1,053 No. 7	140	-	-	No. 27 Tons 1,053 No. 7	140	No. 18 Tons 754	252
Diesel-electric	Tons 305	79	-	-	Tons 305	79	-	-
Diesel, mechanical	-	-	-	-	-	-	-	-
Industrial, contractors' and light railway	-	-	-	-	-	-	..	1,776
Boilers for locomotives	No. 284 Tons 3,752	450	6 Tons 60 No. 16 Tons ..	6 20	No. 270 Tons 3,812 No. 16 Tons ..	456 20	..	1,776
Other parts of locomotives, except axles, tyres and wheels	..	833	-	-	..	833	15,550 ..	3,176 2,029
Road rollers and parts thereof	-	-	-	-	-	-	-	-
Railway signals (mechanical)	..	253	-	-	..	253	1,612 ..	190 1,037
Turntables and brake gear	-	-	-	-	-	-	-	-

TABLE 23 (contd.)

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000	Tons	£'000
Principal products (contd.)								
Repair work								
Locomotives, rail								
Steam		22,451		3,489		25,941		
Diesel, mechanical		-		3		3		
Diesel-electric		34		-		34		1,146(a)
Electric		1		-		1		
Other		17		-		17		
Other repair work and work done for the trade or on commission		-		-		-		75(a)
Total principal products		27,703		3,519		31,222		17,244
Other output								
Railway points, switches and crossings	..	321	-	-	..	321	-	-
Railway chairs	18,049 ..	174 49	-	-	18,049 ..	174 49	-	-
Railway carriages, wagons and trucks, and parts thereof (except axles, tyres and wheels)	768 ..	108(b) 13	-	-	768 ..	108(b) 13	460 ..	116 51
Engineering castings	..	72	-	-	..	72	..	32
Other engineering products	..	117	-	-	..	117	..	71
Electrical goods and appliances	..	113	-	-	..	113	..	732
Machinery and parts								
Boilers (other than for locomotives) and boiler-house plant	-	-	-	-	-	-	..	458
Prime movers	-	-	-	-	-	-	No. 36 H.P. 11,660 ..	150 45



TABLE 23 (contd.)

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	£'000	£'000	£'000	£'000	Tons	£'000		
Other output (contd.)								
Machinery and parts (contd.)								
Agricultural, mining, road making and earth moving machinery	-	-	-	-	-	-	1,791	610
							..	123
Other	-	-	-	-	-	-	3,027	681
							..	470
Oil refining	..	54	-	-	..	54	-	-
Other goods	-	-	-	-	-	-	..	415
Scrap and waste sold								
Scrap metals	Th.tons		Th.tons		Th.tons		Th.tons	
Iron and steel	153.3	795	18.4	78	171.8	873	24.4	79
Brass	4.9	480	0.4	27	5.2	508	..	30
Copper	4.5	490	0.4	41	4.9	531	..	18
Other	..	549	..	36	..	585	..	27
Other waste products	..	21	..	3	..	25	..	2
Work done		2,946		468		3,414		243 (a)
Total		34,006		4,172		38,178		21,598

(a) Amount charged.

(b) Parts only.

## Purchased materials and fuel

## Larger establishments

TABLE 24

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000
Materials								
Iron and steel								
Bars and rods								
Alloy steel	2.8	125	-	3	2.9	129	2.5	150
Iron and non-alloy steel	25.8	632	3.5	93	29.3	725	19.1	483
Plates, sheets and strip								
Alloy steel	3.0	59	-	-	3.0	59	2.5	78
Iron and non-alloy steel	26.7	551	1.8	42	28.6	593	26.6	535
Wrought tubes of iron and non-alloy steel	0.5	37	0.1	10	0.6	47	1.4	135
	..	18			..	18		
Castings in the rough								
Iron	34.8	727	0.7	15	35.5	742	12.0	696
Alloy steel	2.5	52	-	-	2.5	52	0.9	188
Non-alloy steel	1.4	120	-	2	1.4	122	5.9	536
Machined castings, iron and steel	1.0	124	0.4	29	1.5	152	0.6	125
Forgings in the rough								
Alloy steel	-	1	-	-	-	1	0.2	21
Iron and non-alloy steel	6.7	191	0.6	36	7.3	227	6.0	283
Other descriptions, except finished parts								
Alloy steel	-	1	-	-	-	1	-	12
Iron and non-alloy steel	22.1	280	1.8	22	23.8	302	6.1	93
							..	128
Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) in all forms, except finished parts	Th.cwts.		Th.cwts.		Th.cwts.		Th.cwts.	
	108.4	785	4.7	38	113.1	823	28.8	259
							..	65
Copper								
Plates, sheets and strip	130.2	918	7.9	75	138.1	993	25.9	245



TABLE 24 (contd.)

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwt.	£'000	Th. cwt.	£'000	Th. cwt.	£'000	Th. cwt.	£'000
Materials (contd.)								
Copper (contd.)								
Other descriptions, except finished parts	83.1	730	9.4	73	92.5	804	15.0	110
Tin in blocks, ingots, bars and slabs	5.7	156	1.4	32	7.1	188	2.0	52
Timber (including wood for packing cases)	Th. cu. ft.				Th. cu. ft.		Th. cu. ft.	
Hardwood	5.4	4	-	-	5.4	4	23.2	20
Softwood	339	27	-	2	339	29	1,531	109
Consumable tools bought as replacement	..	253	..	64	..	317	..	228
Paint, enamel and varnish	63.4	46	1.9	2	65.4	48	47.9	31
Used for road vehicles	..	10	..	..	..	10	..	25
Wheels and axles, complete	182	16	3	-	185	16	..	(a)
Tyres and axles	17.9	785	2.6	103	20.5	888	4.2	181
Steel springs, laminated or spiral	1.7	154	0.4	23	2.1	177	0.4	46
Superheater equipment, including elements	2.9	311	0.2	23	3.1	335	0.5	84
Electric lighting equipment	..	93	..	2	..	95	..	119
Boiler tubes	10.3	732	0.8	53	11.1	785	3.0	84
Diesel engines, complete	5	47	-	-	5	47	440	155
Electric generators	16	1	-	-	16	1	..	20
	No.				No.		No.	(a)

TABLE 24 (contd.)

	Railway locomotive shops						Other locomotive manufacturers	
	England and Wales		Scotland		Great Britain		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
	£'000	£'000	£'000	£'000	No.	£'000		
Materials (contd.)								
Gearboxes	-	-	-	-	-	-	50	31
Other purchased components	..	2,761	..	147	..	2,908	..	3,358
Replacement parts for own machinery (other than machined castings)	..	102	..	9	..	111	..	80
All other purchased materials	..	1,871	..	363	..	2,234	..	1,453
Fuel and electricity	Th. tons		Th. tons		Th. tons		Th. tons	
Coal	107.7	274	6.9	15	114.6	289	58.8	158
Coke	34.8	132	3.5	12	38.3	144	20.9	85
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	59,003	281	7,464	33	66,467	315	51,025	192
From other sources	-	-	-	-	-	-	-	-
Electricity obtained from other works under the same ownership	7,412	39	-	-	7,412	39	-	-
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	47	4	1	-	48	4	107	9
Used for other power purposes	308	14	3	-	311	14	161	7
Other oil fuel (including creosote/pitch mixtures)	2,338	81	99	4	2,437	84	3,759	132
Gas purchased	Th. therms		Th. therms		Th. therms		Th. therms	
From public supply	757	27	256	8	1,013	35	1,720	52
From other sources	107,158	21	-	-	107,158	21	-	-
Gas obtained from other works under the same ownership	573,777	120	-	-	573,777	120	-	-
All other purchased fuel	..	17	-	-	..	17	..	2
Total		13,731		1,334		15,065		11,252

- (a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given. The amounts are included with "All other purchased materials".
- (b) The total quantity of electricity consumed by railway locomotive shops in England and Wales was 66,769,000 B.T. units including 355,000 generated in the same works. The total quantity of electricity consumed in Scotland was 7,464,000 B.T. units, none being generated in the same works. Owing to the risk of disclosure of information relating to individual firms, separate particulars of the total quantity of electricity consumed by other locomotive manufacturers cannot be given.



## Employment and remuneration

## Larger establishments

## Railway locomotive shops (a)

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (b)	Total	Average number of operatives	Administrative, technical and clerical employees (b)	Total	Average number of operatives	Administrative, technical and clerical employees (b)	Total
Males									
Under 18	2,328	99	2,427	441	5	446	2,769	104	2,873
All ages	51,710	3,158	54,868	7,547	419	7,966	59,257	3,577	62,834
Females									
Under 18	50	219	269	-	26	26	50	245	295
All ages	471	1,346	1,817	25	180	205	496	1,526	2,022
Total									
Under 18	2,378	318	2,696	441	31	472	2,819	349	3,168
All ages	52,181	4,504	56,685 (c)	7,572	599	8,171 (c)	59,753	5,103	64,856 (c)
Total remuneration	£'000 18,408	£'000 1,635	£'000 20,043	£'000 2,758	£'000 235	£'000 2,992	£'000 21,166	£'000 1,869	£'000 23,035

- (a) Owing to the risk of disclosure of information relating to individual firms similar details for other locomotive manufacturers cannot be given. See Table 15.
- (b) Number at September 25, 1948.
- (c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £553,000; £482,000 for England and Wales, and £71,000 for Scotland.

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

TABLE 26

Month	Monthly index (a)				Month	Monthly index (a)			
	Railway locomotive shops			Other locomotive manufacturers		Railway locomotive shops			Other locomotive manufacturers
	England and Wales	Scotland	Great Britain	Great Britain		England and Wales	Scotland	Great Britain	Great Britain
1948					1948				
January	99.8	100.2	99.8	99.7	August	100.1	100.4	100.2	99.3
February	100.2	100.3	100.2	99.6	September	100.1	99.8	100.0	99.7
March	100.2	100.6	100.2	99.8	October	99.8	99.0	99.7	100.0
April	100.4	101.7	100.6	100.5	November	99.6	98.2	99.4	100.6
May	100.3	101.6	100.5	100.7	December	99.2	96.6	98.9	100.6
June	100.2	100.6	100.2	100.4	Percentage employment in this trade covered by the index	100.0	100.0	100.0	72.7
July	100.2	100.9	100.3	99.1					

- (a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948. The question of man-hours worked in this trade will be dealt with in a later summary volume.



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