THE RAILWAY CARRIAGE AND WAGON TRADE

(Private Firms)

Note.—For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

Introductory

This trade comprises firms that were engaged wholly or mainly in the construction or repair of railway carriages and wagons and parts thereof. Production in the workshops of railway companies and other public utility undertakings is dealt with in a separate volume.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than ten persons :----

Particulars	Unit	1930	1924
Value of goods made and work done (Gross output)	£'000	10.735	16,235
Cost of materials used	,,	6,298	10,933
Paid for work given out to other firms	"	41	*
Net output	"	4.396	5,302
Average number of persons employed	No.	23,339	29,495
Not output per person employed Power available :	£	188	180
Prime movers	H.P.	26,870	23,210
Electric motors driven by purchased electricity		51.245	41,701
	No.	104	101
Number of returns		154	†

* Not ascertained. † Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 187, the corresponding figure for 1924 being 102. The value of the gross output of the small firms in 1924 was £35,000, the work done consisting exclusively of repairs.

In addition, 7 firms to which schedules were sent at the 1930 Census and about 20 at that of 1924 furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year. **Size of firms.**—In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns :—

Size of firm (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
and the second s	No.	£'000	£'000	No.	£
11-24	20	110	52	332	156
25-49	25	329	141	885	160
50-99	22	581	254	1,564	162
100–199	17	1,030	476	2,574	185
200-499	7	951	475	2,297	207
500-999	7	2,783	1,023	5,093	201
1,000 and over	6	4,951	1,975	10,594	186
TOTAL	104	10,735	4,396	23,339	188

Regional distribution.—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas* of Great Britain in which firms in this trade are situated :—

Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
Martin and Martin	No.	£'000	£'000	No.	£
1 and 4 1930	8	312	168	927	181
1, 4 and 8 1924	9	188	106	591	179
1930	18	1,471	786	2,930	268
- 1924	18	895	296	1,698	174
$\begin{cases} 1930 \\ 1930 $	19	1,299	478	2,892	165
1924	16	1,882	648	3,293	197
$5 \qquad \int 1930$	16	4,018	1,385	8,372	165
1924	10	5,319	1,337	8,415	159
$\int 1930$	19	2,278	910	4,974	. 183
1924	23	5,413	-1,991	10,865	183
<i>√ √ 1930</i>	16	634	370	1,837	201
1924	19	1,412	595	2,934	203
9 and 10 1930	8	723	299	1,407	212
1924	6	1,126	329	1,699	194
Тотац \$ 1930	104	10,735	4,396	23,339	188
10TAL \ 1924	101	16,235	5,302	29,495	180

Northern Ireland.—No production of railway carriages and wagons was recorded in Northern Ireland in 1930 or 1924.

	* For particulars see page xviii.	
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Production

Principal products.—The following table shows the value and, where available, the quantities of railway carriages, wagons, trucks and parts thereof completed in 1930 and 1924 :—

Tri 1 c l	Rengian	1930	bierne i	1924		
Kind of goods	Quantity	Value	Entries	Quantity	Value	
Railway carriages :—		£'000	No.		£'000	
Of steel or iron and steel, $\begin{cases} No. \\ Tons \end{cases}$	$291 \\ 9,669 \}$	989	6{	$446 \\ 9,659 \}$	1,015	
Other, complete No. Parts (except axles, tyres and wheels)	299 	900 560	6 13	414 	1,115 429	
TOTAL—Railway carriages and parts		2,449			2,559	
Railway wagons and trucks :Of steel or iron and steel, $\begin{cases} No. \\ Complete & \dots & \dots \end{cases}$ Other, complete $\dots No.$	8,365 91,421 5,404	2,542 965	$18 \begin{cases} \\ 30 \end{cases}$	$\begin{array}{c} 9,666 \\ 96,953 \\ 34,240 \end{array}$	3,027 5,403	
Parts (except axles, tyres and wheels)		724	35	••••	971	
TOTAL—Railway wagons and parts		4,231			9,401	
Railway carriages and wagons :— Wheels and axles, $No. of sets^*$ complete $Tons$ Parts and accessories, not separ-	$45,478 \\ 43,586 $	948	27{	$\left. rac{45,607}{71,960} \right\}$	1,861	
ately distinguished		369	23	1997 81	. 467	
TOTAL— Railway carriages, wagons and parts (except axles and tyres, sold as such)		7,997		: 42 A	14,288	
Framcars and trackless trolley { vehicles and parts {	Tons 1,153 †	$130 \\ 326 \}$	16		277	
Colliery tubs, trams and trucks	1,959 †	38 182	23		177	
TOTAL-PRINCIPAL PRODUCTS		8,673		000	14,742	

* Specified for 1930 as consisting of 2 wheels and 1 axle. As the number of sets was recorded without specification for 1924, the figures for the two years may not be comparable.

† Weight not stated.

The particulars for 1930 in the above table include the following amounts returned on schedules for other trades. As already stated, the production of railway companies and other public utility undertakings is not included. RAILWAY CARRIAGE AND WAGON

Contrasting and Associate and Associate and		1930		
Kind of goods	Quantity	Value	Entries	
		£'000	No.	
Railway carriages, of steel or iron $\begin{cases} No. \\ Tons \end{cases}$	$\left\{ \begin{array}{c} 5\\185 \end{array} \right\}$	7	1	
Railway wagons and trucks :		in the second		
Of steel or iron and steel, $\int No$.	304	78	5	
$\begin{array}{ccc} \text{complete} & \dots & \dots & \dots & 1 \\ \text{Other, complete} & \dots & \dots & No. \end{array}$	2,618	3	1	
Parts (except axles, tyres and wheels)		31	1	
Railway carriages and wagons :			1 A ALART	
Wheels and axles, complete $\dots \begin{cases} No. \ of \ sets \\ Tons \end{cases}$	$12,362 \\ 10,604 $	212	13	
Parts and accessories, not separately distinguished Tramcars and trackless trolley		39	4	
vehicles and parts		181	8	
Colliery tubs, trams and trucks Tons	$\left\{\begin{array}{c}1,852*\end{array}\right.$	36 20	} 10	
Тотаl		607		

*Weight not stated.

The table on page 370 shows a considerable change in the two years in the average weight of railway carriages of iron and steel, which increased from 23.9 tons in 1924 to 33.2 tons in 1930, or by about 39 per cent. An increase of 10 per cent. in 1930 is indicated in the average weight of wagons and trucks of iron and steel.

The quantities and values shown in the table on page 370 for carriages and wagons represent the vehicles *completed* in the year, and therefore include those begun in the previous year as well as those wholly constructed in the year. The figures for individual classes of vehicles may thus overstate or understate the output properly attributable to the censal year, but any excess or defect in values is corrected in the total value of the output of the trade as a whole by making adjustment for the value of all work in progress at the beginning and at the end of the year (see page 375).

Prices.—The average selling values of railway carriages, wagons and trucks in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that carriages of steel or iron and steel built in 1930 were, on the average, of a substantially heavier type than those built in 1924 (see above) and that changes of this kind considerably affect comparisons between the prices shown for complete vehicles in the two years.

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una dia dia dia dia dia dia dia dia dia di	Avera	1930 as a	
Kind of goods	1930	1924	of 1924
	£	£	Per cent.
Railway carriages, complete :		i lengt a lite official	and the second states
Per ton	$102 \cdot 4$	105.1	97.4
Of steel or iron and steel $\begin{cases} Per \ ton \\ Per \ carriage \end{cases}$	$3.435 \cdot 3$	2,277.2	150.9
Other Per carriage	3.008.4	2.693.7	111.7
Railway wagons and trucks, complete :		hanne person	
(Per ton	27.8	. 31.2	89.1
Of steel or iron and steel $\begin{cases} Per \ ton \\ Per \ wagon \end{cases}$	303.8	313.2	97.0
Other Per wagon	178.6	157.8	113.2
Railway wheels and axles, complete			Charles and the
Per ton	21.7	25.9	83.8
101000	-1 .		

Volume of production in 1930 and 1924 .- The following table compares the volume of production of railway carriages, wagons, trucks and parts thereof, and the volume of repair work, in 1930 and 1924 :--

	To	otal producti	on	1930
The laft words	1930	19	24	as a
Kind of goods	As returned	As returned	At 1930 average values	of 1924
Railway carriages :	£'000	£'000	£'000	Per cent.
Of steel or iron and steel, com- plete Other, complete Parts (except axles, tyres and	989 900	$1,015 \\ 1,115$	989* 1,100†	100 82
wheels)	560	429	420†	133
plete	2,542	3,027	2,697*	94
Other, complete Parts (except axles, tyres and	965	5,403	4,800‡	20
wheels)	724	971	862‡	84
Railway carriages and wagons :	948	1,861	1,560*	61
ately distinguished Tramcars and trackless trolley	369	467	410‡	90
vehicles, complete and parts	456	277	270†	168
Colliery tubs, trams and trucks	220	177	157‡	140
Repair work	2,095	2,647	2,382§	88
Total of above Deduction on account of work in	10,768	17,389	15,647	69
progress (see page 375)	167	142	128§	
Тотац	10,601	17,247	15,519	68

* Based on average value per ton.

† Based on average value per ton of complete railway carriages of steel or iron and steel.

‡ Based on average value per ton of complete railway wagons and trucks of steel or iron and steel.

§ Based on average value of all preceding items in the table.

Production, exports and imports.-The following table gives particulars of the principal classes of railway carriages, wagons and parts thereof exported from the United Kingdom in 1930 and 1924, and of those imported and retained. The particulars of production which are added for comparison are those shown in previous tables as recorded by private firms, and are therefore exclusive of vehicles and parts manufactured by railway companies.

Kind of goods	Produ	ction	Exp	orts	Retained imports		
Railway carriages, complete :-Of steel or iron and $\begin{cases} 1930 \\ steel \\ 1924 \end{cases}$	No. Th. 291 9.7 446 9.7		No. 234 <i>192</i>	$\begin{array}{c} \text{Th.} \\ \text{tons} \\ 6 \cdot 4 \\ 4 \cdot 3 \end{array}$	No.	Th. tons	
Other $\dots \left\{ \begin{array}{l} 1930\\ 1924 \end{array} \right.$	299 414		95 50		-		
Railway wagons and trucks, complete :— Of steel or iron and $\begin{cases} 1930\\ 1924 \end{cases}$	8,365 9,666	91·4 97·0	5,601 7,669	$28 \cdot 4 \\ 32 \cdot 8$	6,151 8,7 <i>13</i>	$1.7 \\ 3.1$	
Other $\dots \qquad \dots \begin{cases} 1930\\ 1924 \end{cases}$	5,404 34,240		2,770 1,302		295 767		
Railway wheels and axles, complete1930 1924		42·4 72·0		$\begin{array}{c} 16 \cdot 0 \\ 16 \cdot 2 \end{array}$		0·4 1·4	
	Value at factory		Value f.o.b.		Value c.i.f.		
Other parts (except tyres and axles):	£'0	000	£'C		£'(000	
Of railway carriages $\dots \begin{cases} 1930\\ 1924 \end{cases}$	560 <i>429</i>		AND A REAL PROPERTY OF	09 56			
$\begin{array}{ccc} \text{Of railway wagons and} & \left\{ \begin{array}{ccc} 1930 \\ trucks & \dots & \dots \end{array} \right\} \\ 1924 \end{array}$	724 971		1,2 1,8		24 9		
TOTAL—Parts of car- riages and wagons 1930 (except tyres, wheels and axles)	1,653* <i>1,867</i> *		2,0 2,6		tan "Carro Santa Santa Santa	44 <i>16</i>	

* Including £369,000 for 1930 and £467,000 for 1924 in respect of unclassified parts of carriages and wagons. 20870

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For purposes of export, vehicles are in many cases dismantled prior to shipment and may appear in the record of exports as parts and not as complete vehicles. The excess in each year of the value of *parts* exported over the recorded production is probably due mainly to this cause. Owing to this factor and to the possible inclusion among exports of goods manufactured by railway companies, etc., precise comparisons cannot be made between the recorded production and the exports of the various classes of complete vehicles specified.

Repair work and work done for the trade.—The value of repair work carried out to railway carriages and wagons during 1930 was returned as $\pounds 2,095,000$ (including $\pounds 40,000$ returned on schedules for other trades), the corresponding figure for 1924 being $\pounds 2,647,000$. In addition, sums of $\pounds 23,000$ and $\pounds 34,000$ were received for other kinds of work done during 1930 and 1924 respectively.

Other products.—In addition to the output shown in the table of principal products on page 370, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Railway Carriage and Wagon Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Wind at					1930	1924	
Kind of goods -					Value	Value	
					£'000	£'000	
Complete vehicles (not med	hanica	ally d	riven)		. 7]	234*	
					100	234.	
					438	70	
					(20,426 tons)	(3,286 tons)	
Machinery and parts					87	112	
Other iron and steel manuf	facture	es			66 }	112	
Other goods made					7	2	
1	TOTAL				626	418	

* Including some commercial motor vehicles.

Waste products sold.—The following sales of manufacturers' scrap and other waste products were recorded for 1930 by firms in the Railway Carriage and Wagon Trade. Corresponding particulars are not available for 1924.

		£		
Iron and steel scrap		128,000		
- be seened of 1901 and star take her DES	(5	5,572 tons)		
Other metal scrap and waste products		4,000		

RAILWAY CARRIAGE AND WAGON

Work in progress.-The value of the work in progress at the beginning of 1930 was returned as £1,812,000 as compared with £1,645,000 at the end of the year. Work in progress at the begining of 1924 was valued at £1,912,000 and at the end of the year at £1,770,000. Work in progress at the end of the year represents the estimated value of unfinished carriages, wagons and other goods that were in course of construction at the end of the year, and work in progress at the beginning of the year represents a similar estimate for vehicles, etc. in course of construction at that time, some or all of which would represent goods completed within the year. The amount by which the value of the work in progress at the beginning of the year exceeded that at the end, viz., £167,000 for 1930, should be deducted from the value of the goods completed in order to arrive at the value of the output attributable to that year; a deduction of £142,000 is similarly required in respect of the value of the output in 1924.

Employment and Wages

Employment.—The following table shows the average numbers of persons employed in 1930 and 1924 :—

	Ma	les	Females		Total	
Persons employed	Under 18	All ages	Under 18	All ages	Under 18	All ages
1930 Operatives (average for the year) Administrative, technical and	2,305	20,196	29	218	2,334	20,414
clerical staff (as at 18th October)	214	2,221	152	704	366	2,925
TOTAL	2,519	22,417	181	922	2,700	23,339
1924 Operatives (average for the year) Administrative, technical and	3,315	26,186	54	266	3,369	26,452
clerical staff (as at 18th October)	294	2,338	72	705	366	3,043
Total	3,609	28,524	126	971	3,735	29,495

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 212-3.

Power

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924 :—

Power	i seletrati	1930			1924	
Fower equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines Steam turbines Internal combustion engines :—	9,764 7,365	4,908 2,804	14,672 10,169	6,650 8,820	3,539 2,000	10,189 10,820
Gas Petrol, kerosene, or	1,282	208	1,490	1,672	68	1,740
tettol, kerosele, or other light oils Heavy oils Water engines	$\begin{array}{c} 14\\ 425\\ 25\end{array}$	17 58 —	31 483 25	64 350 25	$2 \\ 20 \\ -$	66 370 25
TOTAL	18,875	7,995	26,870	17,581	5,629	23,210
ELECTRIC GENERATORS Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines Steam turbines Internal combustion engines :	2,672 5,100	3,065 2,468	5,737 7,568	3,095 6,468	2,423 1,500	5,518 7,968
Gas Petrol, kerosene, or other light	286	80	366	580	4	584
oils Heavy oils Water engines		20 	164 8	$\begin{vmatrix} 10\\68\\-\end{vmatrix}$		$ \begin{array}{c} 10 \\ 68 \\ - \end{array} $
TOTAL	8,210	5,633	13,843	10,221	3,927	14,148
ELECTRIC MOTORS Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Electricity generated in same works Electricity generated in other works	28,035	4,953	32,988	16,449	5,971	22,420
under same owner- ship Purchased electricity	452 46,531	4,714	452 51,245	1,115 38,147	$143 \\ 3,554$	1,258 41,701
TOTAL	75,018	9,667	84,685	55,711	9,668	65,379

Consumption of fuel

The following table shows the quantities of coal, coke and electricity recorded as used in 1930 :---

Kind of fuel used	For power (driving engines)	For other purposes (so far as recorded)	For power and other purposes, not separately distinguished
Coal Coke	Tons 43,724 586	Tons 154,436* 26,205*	Tons 1,176 227
			B.T.U. (Kwhrs.) '000
Electricity used for all purposes : Generated in same works Generated in other works under a			18,730
Purchased			25,608
TOTAL-	-Electricity .		44,731

* These figures were recorded by firms representing $96 \cdot 3$ per cent. of the net output of the whole trade.

TABLES

I. Summary of results

Particulars	Unit	England and Wales	Scotland	Great Britain
Value of goods made and work done (Gross output) Cost of materials used Paid for work given out to other firms Net output Average number of persons employed Power available : Prime movers Electric motors driven by purchased electricity	£'000	10,012	723	10,735
	"	5,874	424	6,298
	"	41		41
	"	4,097	299	4,396
	No.	21,932	1,407	23,339
	£	187	212	188
	H.P.	26,255	615	26,870
	"	44,953	6,292	51,245

II. Production

Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
Railway carriages :— Of steel or iron and steel, complete Other, complete Parts (except axles, { Weight stated tyres and wheels)	No. Tons £'000 No. £'000 Tons £'000 £'000	286 9,484 982 299 900 * *	***	286 9,484 982 299 900 3,033 201 359
TOTAL—Carriages and parts	£'000	· *	*	2,442
Railway wagons and trucks : Of steel or iron and steel, complete Other, complete { Parts (except axles, { Weight stated Weight not stated	No. Tons £'000 No. £'000 Tons £'000 £'000	* * * * *	* * * * * * * * * *	8,061 88,803 2,464 5,387 962 9,190 186 507
Total-Wagons and parts	£'000	*	*	4,119

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Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
Railway carriages and wagons : Wheels and axles, complete Parts and accessories, not separately dis- tinguished Weight stated Weight not stated	No. of sets† Tons £'000 Tons £'000 £'000	29,630 30,196 670 4,654 64 256	3,486 2,786 66 463 8 2	33,116 32,982 736 5,117 72 258
Total—Carriages, wagons and parts (except axles and tyres)	£,000	*	*	7,627
Tramears and trackless trolley vehicles, com- plete and parts Weight stated Weight not stated Colliery tubs, trams and trucks Weight not stated Weight not stated Railway tyres and axles, not included above Weight not stated Complete vehicles (not mechanically driven Motor bodies, complete Machinery and parts Other manufactures of iron and steel Iron and steel scrap sold Other metal scrap and waste products sold Repair work Work done for the trade (machining, grinding, planing, etc.)	Tons £'000 £'000 £'000 £'000 £'000 £'000	$ \begin{array}{c} * \\ * \\ * \\ 162 \\ * \\ * \\ 7 \\ * \\ 8 \\ 54 \\ 3 \\ 53,853 \\ 123 \\ 4 \\ 2,004 \\ 23 \\ \end{array} $		$\begin{array}{c} 1,153\\ 130\\ 145\\ 107\\ 2\\ 162\\ 20,426\\ 438\\ 7\\ 100\\ 8\\ 66\\ 7\\ 55,572\\ 128\\ 4\\ 2,055\\ \$\\ 23\\ \$\end{array}$
TOTAL Plus Value of work in progress at the end of 1930	£,000	10,201	701	10,902
Less Value of work in progress at the beginning of 1930	>>	1,733	79	1,812
Total value of goods made and work done (Gross output)	£'000	10,012	723	10,735

* Owing to the possible disclosure of information relating to individual firms separate particulars for England and Wales and for Sootland cannot be given. † 2 wheels and 1 axle. ‡ Less than £500. § Amount received for work done.

III. Employment.

A.-NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930

Persons employed		Males		Females		Males and females	
		Under 18	All ages	Under 18	All ages	Under 18	All ages
A 1		2,038 198	18,004 2,047	$\frac{26}{149}$	201 673	2,064 347	18,205 2,720
		2,236	20,051	175	874	2,411	20,925
AT		136 16	1,047 174	1 3	5 31	137 19	1,052 205
TOTAL		152	1,221	4	36	156	1,257
1 · · · · · · ·		2,174 214	19,051 2,221	27 152	206 704	2,201 366	19,257 2,925
Total		2,388	21,272	179	910	2,567	22,182

* Administrative, technical and clerical staff.

B.—Operatives employed in one week in each mo

	Males and females				Males and females			
Week ended	England and Wales	Scotland	Great Britain	Week ended	England and Wales	Scotland	Great Britain	
Jan. 18 Feb. 15 Mar. 15 Apl. 12 May 17 June 21	19,600 19,761 19,902 20,536 20,457 20,201	$\begin{array}{c} 1,221\\ 1,319\\ 1,360\\ 1,298\\ 1,256\\ 1,274\end{array}$	20,821 21,080 21,262 21,834 21,713 21,475	July 19 Aug. 16 Sept. 13 Oct. 18 Nov. 15 Dec. 13	19,860 19,317 19,330 18,205 17,108 16,269	1,193 1,009 1,048 1,052 1,187 1,207	21,053 20,326 20,378 19,257 18,295 17,476	
A	VERAGE FO	OR THE 12 M	MONTHS		19,212	1,202	20,414	

IV. Power

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS

		MOTO	ORS				
Power	Engla and W	and Vales	Scotl	and	Great I	Britain	
equipment	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle	
PRIME MOVERS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Reciprocating steam engines Steam turbines Internal combustion	9,424 7,365	4,633 2,804	340 —	275 —	9,764 7,365	4,908 2,804	
engines : Gas Petrol, kerosene, or other light	1,282	208			1,282	208	
oils Heavy oils Water engines	$\begin{array}{r}14\\425\\25\end{array}$	17 58 —			$\begin{array}{c} 14\\ 425\\ 25\end{array}$	17 58 —	
TOTAL	18,535	7,720	340	275	18,875	7,995	
TOTAL OF PRIME MOVERS IN- STALLED,	26,2	55	615		26,870		
ELECTRIC GENERATORS Driven by Reciprocating steam	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
engines Steam turbines Internal combustion engines :	2,672 5,100	3,065 2,468		_	2,672 5,100	3,065 2,468	
Gas Heavy oils Water engines	286 144 8″	80 20 —			$\begin{array}{c} 286\\ 144\\ 8\end{array}$	80 20 —	
TOTAL	8,210	5,633			8,210	5,633	
TOTAL OF ELECTRIC GENERATORS IN- STALLED	13,8	43	_	_	13,843		
ELECTRIC MOTORS Driven by Electricity gener-	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
ated in same works Electricity gener- ated in other	28,035	4,953		<u>-</u>	28,035	4,953	
works under same ownership	402		50	·	452	-	
Purchased electricity	41,251	3,702	5,280	1,012	46,531	4,714	
Total	69,688	8,655	5,330	1,012	75,018	9,667	
TOTAL OF ELECTRIC MOTORS INSTALLED	78,3	43	6,3	342	84,685		

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power* Coke used for power*	Tons 37,011 586	Tons 6,713 —	Tons 43,724 586
All and All and	B.T.U. (Kwhrs.) '000	B.T.U. (Kwhrs.) '000	B.T.U. (Kwhrs.) '000
Electricity used for all purposes :	18,730		18,730
ownership Purchased	371 23,519	$\begin{array}{c} 22\\ 2,089\end{array}$	393 25,608
TOTAL-Electricity	42,620	2,111	44,731

V. Consumption of fuel

* In addition, 1,176 tons of coal and 227 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.