

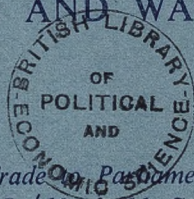
BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

Volume 3: Industry M

RAILWAY CARRIAGES AND WAGONS AND TRAMS



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

LONDON: HER MAJESTY'S STATIONERY OFFICE

1958

TWO SHILLINGS NET

The Report on the Census of Production for 1954

Volume 3, Industry M

Railway Carriages and Wagons and Trams

CORRIGENDUM

Page 3/M/3 - Table 1

Delete figures in column headed "Scotland 1954" and substitute the following:-

	£ million
Gross output (production)	18.31
Net output	7.25
Total stocks and work in progress	
At beginning of year	5.80
Change during year	- 0.55
Capital expenditure less disposals (a)	0.13
Wages and salaries	5.37
	Thousands
Total employment (including working proprietors)	11.09

Board of Trade
February, 1958

London: H.M. Stationery Office

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The Report on the Census of Production for 1954

Volume 3, Industry M

Railway Carriages and Wagons and Trams

CORRIGENDA

Page 3/M/10 - Table 5(B)

Railway wagons and trucks		1951	1954	
		Value £'000	Value £'000	Entries Number
Complete				
Exceeding 3 ft. in gauge	Delete	310	4,387	27
	Substitute	1,104	5,649	28
Not exceeding 3 ft. in gauge (including colliery tubs, trams and trucks)	Delete	1,467		
	Substitute	673		

Page 3/M/11 - Table 5(B)

Lubricators (including parts, e.g., pads and shields) for railway wagon, etc. axle boxes (b)		1951	1954	
		Value £'000	Value £'000	Entries Number
	Delete	412		
	Substitute	155		
Parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	Delete	311	798	6
	Substitute	568	1,437	7
Total	Delete		59,529	
	Substitute		61,430	
Sales in other industries (see Table 6)	Delete		4,451	
	Substitute		6,352	

Page 3/M/11 - Table 6(B)

Railway wagons and trucks (including colliery tubs, trams and trucks)		1954		
		Quantity Tons	Value £'000	Entries Number
Complete	Delete	11,446	978	12
	Substitute	29,659	2,241	13
Lubricators (including parts, e.g. pads and shields) for railway wagon, etc. axle boxes; and parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	Delete		200	6
	Substitute		839	7

Page 3/M/12 - Table 6(B)

Total		1954
		Value £'000
	Delete	4,451
	Substitute	6,352

BOARD OF TRADE
June, 1958

LONDON: HER MAJESTY'S STATIONERY OFFICE

DS 94781/1/R.68 500 8/58 DL

IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

The Report on the Census of Production for 1954

VOLUME 3 INDUSTRY M

RAILWAY CARRIAGES AND WAGONS AND TRAMS

THIS REPORT on the Railway Carriages and Wagons and Trams Industry relates to establishments engaged wholly or mainly in the manufacture and repair of railway coaches, wagons, etc., tramcars, colliery tubs, trams and trucks, etc.

This industry corresponds to minimum list heading 86 in the Standard Industrial Classification.

The output of railway establishments 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 as was properly attributable to the output concerned, but without any allowance for profit. The output of other establishments in this industry is, however, valued at selling price and therefore includes profit.

Any establishments in this industry in Northern Ireland were excluded for 1948. For 1951 and 1954 particulars for Northern Ireland could not be included in this report owing to the risk of disclosure of information relating to individual undertakings, and have been included in the report on the Motor Vehicles and Cycles (Repairing) Industry (Volume 3, Industry J).

Except for Table 1, which covers the whole of the industry, the tables in this report are in two parts; Part A relates to railway establishments and Part B to other establishments.

LIST OF TABLES

Table No.	Title	Page		Table No.	Title	Page	
		Part A	Part B			Part A	Part B
1	Industry summary: estimates for the industry as a whole	3/M/3		6	Sales of principal products of the industry by establishments classified to other industries	3/M/5	3/M/11
		Part A	Part B				
2	Summary of returns received	3/M/3	3/M/9	7	Sales in the industry of other than principal products	3/M/6	3/M/12
3	Analysis by size, 1954	3/M/4	3/M/9	8	Total make of intermediate products	Does not apply	Does not apply
4	Analysis according to specialisation within the industry, 1954	Does not apply	3/M/10	9	Purchases of materials and fuel, 1954	3/M/6	3/M/12
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	3/M/4	3/M/10	10	Average number of employees and wages, salaries and superannuation payments	3/M/8	3/M/14
				11	Employment in a specified week	3/M/8	3/M/14

IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

7.3.58

The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel; products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary

Estimates for the industry as a whole

TABLE 1

	Great Britain			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	83.6	99.9	130.3	18.13	7.27
Net output	40.2	44.4	53.6	7.14	3.75
Total stocks and work in progress					
At beginning of year	25.4	29.0	44.0	5.77	1.36
Change during year	+ 6.1	+ 7.6	- 3.0	- 0.56	- 0.22
Capital expenditure less disposals (a)	1.1	0.9	1.4	0.12	0.10
Wages and salaries	30.9	35.2	42.7	5.29	2.47
Total employment (including working proprietors)	Thousands 90.1	Thousands 88.9	Thousands 88.0	Thousands 10.87	Thousands 5.15

(a) Capital expenditure on new building work, plant, machinery and vehicles, (including (except in 1948) that incurred for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

PART A

RAILWAY ESTABLISHMENTS

Summary of returns received

TABLE 2(A)

	Unit	Great Britain		
		1948	1951	1954
ESTABLISHMENTS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	404	285	301
Total value of goods made and work done	£'000	42,412	50,434	66,966
Products on hand for sale	"	2,329(a)	- 2,628	4,526
and work in progress	"	+ 387(a)	+ 1,500	+ 387
Gross output (production)	"	42,799	51,934	67,353
Purchases of materials and fuel	"	23,653	30,998	35,795
Stocks of materials and fuel	"	11,355	13,196	20,220
Cost of materials and fuel used	"	+ 3,243	+ 3,556	- 1,474
Payment for work done on materials given out	"	20,410	27,442	37,269
Payment for transport	"	85	36	29
Net output	"	22,303	24,456	30,056
Average number of employees	No.	49,906	51,465	51,466
Total employment	"	4,642(b)	4,691	5,241
Net output per person employed	"	54,548	56,156	56,707
Wages and salaries	£	409	436	530
Capital expenditure	£'000	17,021	20,125	24,760
New building work (c)	"	1,734	2,018	2,610
Plant and machinery	"	92	30	62
Plant and machinery	"	328	223	334
Plant and machinery	"	12	14	9
Plant and machinery	"	9	2	1
Plant and machinery	"	3	1	1
ESTABLISHMENTS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	-	-	-
Total employment, including working proprietors	"	-	-	-

(a) Work in progress only; railway establishments' return of products on hand for sale was nil.

(b) Number in week ended September 25, 1948.

(c) Excluding expenditure for establishments not yet in production.

RAILWAY CARRIAGES AND WAGONS AND TRAMS

Analysis by size, 1954

Larger establishments in Great Britain

TABLE 3 (A)

Average number employed	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (a)	Net output per person employed
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	109	2,092	900	1,546	150	726	78	6	531
25 - 49	76	3,260	1,434	2,423	254	1,120	127	1	536
50 - 99	57	4,596	2,096	3,525	379	1,636	189	3	537
100 - 199	26	3,925	1,909	3,259	335	1,536	169	3	531
200 - 299	6	1,384	793	1,324	142	704	77	4	541
300 - 399	5	1,541	948	1,616	182	797	89	-	527
400 - 499	4	1,581	937	1,616	143	820	76	9	533
500 - 749	4	2,835	1,438	2,400	212	1,159	110	14	551
1,000 - 1,499	3	4,668	1,922	3,248	303	1,655	161	22	541
1,500 - 1,999	4	8,596	3,771	6,718	675	3,180	332	43	510
2,000 - 2,499	2	3,953	2,451	4,101	416	1,982	219	68	543
3,000 - 3,999	2	10,761	3,924	6,891	565	3,334	292	119	526
4,000 - 4,999	2	10,540	4,628	7,987	902	3,722	442	47	521
5,000 - 7,499	1	7,619	2,906	4,812	583	2,388	247	57	539
Total	301	67,353	30,056	51,466	5,241	24,760	2,610	397	530

(a) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

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

Larger establishments in Great Britain

No specialisation within this industry was distinguished.

Sales (or transfers) of the principal products of the industry, including sales (or transfers) of these products by establishments classified to other industries

Larger establishments in Great Britain

TABLE 5 (A)

	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	No.	£'000	No.	£'000	Number
Railway carriages, excluding rail cars					
Complete					
Power driven (i.e., with traction motors driven by a current originating outside the unit)	92 Tons 3,950	854	132 Tons 5,293	1,972	..
Other types	No. 1,389 Tons 37,498	5,813	No. 1,268 Tons 37,711	6,972	7
Parts (except axles, tyres and wheels, internal combustion engines and electric motors)	..	928	2,604 ..	311 1,476	6
Railcars, excluding electric cars operated from a current originating outside the unit, bogie type	-	-	No. 25 Tons 667	454	..
Railway wagons and trucks					
Complete, exceeding 3ft. in gauge	No. 15,770 Tons 124,329	6,771	No. 19,378 Tons 167,187	10,844	7
Parts (except axles, tyres and wheels)	..	182	..	1,104	5

(86221)

RAILWAY CARRIAGES AND WAGONS AND TRAMS

TABLE 5 (A) (contd.)

	1951		1954		Entries
	Quantity	Value	Quantity	Value	
	No.	£'000	No.	£'000	Number
Portable containers	1,084	202(a)	3,105	526	..
Parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	..	1,482	..	2,911	13
Other products	..	29	..	1	..
Repair work on railway carriages, wagons, trucks and railcars, tramcars, colliery corves, trams, tubs, etc. (b)(c)		30,837		35,233	43
Other work done for the trade or on commission (e.g., machining or turning) (c)		33		19	..
Total		47,131		61,824	..
Sales in other industries (see Table 6)		389		1,599	..
Principal products of this industry sold by establishments in the industry		46,742		60,225	22

(a) So far as recorded separately.

(b) Excluding the values of goods made by the establishments and used in the work, which are included against the appropriate headings.

(c) Amount charged.

Sales (or transfers) of principal products of the industry by establishments classified to other industries

Larger establishments in Great Britain

TABLE 6(A)

	1954			Principal industries in which produced
	Quantity	Value	Entries	
		£'000	Number	
Parts of railway carriages, excluding rail cars (except axles, tyres and wheels, internal combustion engines and electric motors)	..	212	..	(a)
Parts of railway wagons and trucks (except axles, tyres and wheels)	..	385	..	
Parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	..	800	6	
Repair work on railway carriages, wagons, trucks and railcars, tramcars, colliery corves, trams, tubs, etc. (b)		202	21	
Total		1,599	..	

(a) The values shown were returned in the Railway Locomotive Shops and Locomotive Manufacturing Industry (Volume 3, Industry L).

(b) Amount charged.

(86221)

Sales (or transfers) in the industry of other than principal products

Larger establishments in Great Britain

TABLE 7 (A)

	1954	
	Quantity	Value
		£'000
Parts of locomotives	..	854
Structural iron and steel work	..	647
Sawmill products and manufactures of wood	..	368
Other goods	..	124
Waste products	Th. tons	
Scrap iron and steel	243	1,642
Other	..	75
Work done (a)	..	961
		2,068
Total		6,741

(a) Amount charged.

TABLE 8 (A) - Total make of intermediate products

Larger establishments in Great Britain

This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in Great Britain

TABLE 9 (A)

	Quantity	Cost
	Th. tons	£'000
Materials		
Wrought tubes of iron and steel, and fittings for wrought tubes	1.6	109
Iron in all other forms except finished parts and scrap	10.5	343
Steel		
Ingots, blooms, billets and slabs	3.4	126
Angles, sections, shapes, bars, rods, girders, beams and joists (not fabricated)	96.2	3,191
Castings in the rough or machined	13.5	708
Forgings (except drop forgings) in the rough or machined	1.4	110
Plates and sheets 1/8 inch thick and over, and hoop and strip (including tape) of all thicknesses but excluding tin-, terne- and black-plates and sheets	44.5	1,718
Springs, laminated and other types	9.2	625
	..	153
Axles, tyres and wheels	83.2	3,698
	..	467
	Th. gal.	
Paint and varnish, including emulsion paints, cellulose based paints and lacquers	759	524
	Th. cu. ft.	
Timber		
Hardwood	2,680	1,455
Softwood	6,868	2,972
	Th. sq. ft.	
Plywood (including battenboard, blockboard and laminated board)	4,829	389

(86221)

TABLE 9 (A) (contd.)

	Quantity	Cost
	Th. sq. ft.	£'000
Materials (contd.)		
Glass (including plate and sheet)	728	98
	..	48
	Th. sq. yds.	
Leather	64	46
	..	34
Leathercloth	99	38
Woven piece goods		
Of wool or mainly of wool	506	572
	..	121
Of cotton or mainly of cotton	224	37
	..	58
Machinery components and accessories for incorporation in finished products		
Brake gear and automatic couplings	..	882
Ball and roller bearings and parts thereof	..	43
Traction and other electric motors and parts thereof	..	1,363
Finished plastics components and fittings	..	139
Electric equipment, including batteries and accumulators, not elsewhere specified	..	1,132
All other components not specified elsewhere	..	5,334
Replacement parts for establishments own machinery, plant and vehicles	..	753
Consumable tools bought as replacement, including engineers' small tools, jigs, fixtures and measuring instruments	..	163
All other purchased materials	..	6,622
Unclassified materials	..	753
	Th. tons	
Fuel and electricity		
Coal	100	322
Coke	14	69
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	Th. gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	145	26
Other	78	5
For burning in furnaces, boilers, kilns, etc.	1,415	62
	Th. therms	
Gas purchased		
From Gas Boards	1,261	65
	Mn. cu. ft.	
From other sources, including other departments	152	36
	Th. kWh.	
Electricity purchased (a)		
From Electricity Boards	47,296	288
From other sources, including other departments	16,348	99
All other purchased fuel		-
Total cost		35,795

(a) The total quantity of electricity generated in establishments in this industry in 1954 was 18 Th. kWh.

(86221)

RAILWAY CARRIAGES AND WAGONS AND TRAMS
Average number of employees, and wages, salaries
and superannuation payments
Larger establishments in Great Britain (a)

TABLE 10 (A)

	1951	1954
	Number	Number
Average number of employees		
Operatives	51,465	51,466
Administrative, technical and clerical employees	4,691	5,241
Total	56,156	56,707
	£'000	£'000
Wages and salaries paid to		
Operatives	20,125	24,760
Administrative, technical and clerical employees	2,018	2,610
Total	22,143	27,370
	£	£
Wages and salaries per head		
Operatives	391	481
Administrative, technical and clerical employees	430	498
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	284
		Number
Employees covered	..	56,834
		£'000
Pension, etc. payments to former employees and dependents	..	7

(a) The following persons, not included above, were also employed by larger establishments in this industry:

	1951	1954
	Number	Number
Canteen workers		
Males	23	11
Females	282	181
Total	305	192
Other workers		
Males	1,274	775
Females	363	75
Total	1,637	850
Total excluded employees	1,942	1,042

Employment in a specified week (a)

Larger establishments in Great Britain

TABLE 11 (A)

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	-	-	-	-	-	-
Operatives	50,430	749	51,179	50,799	798	51,597
Administrative, technical and clerical employees	3,469	1,239	4,708	3,881	1,356	5,237
Total employees	53,899	1,988	55,887	54,680	2,154	56,834

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

PART B
OTHER ESTABLISHMENTS
Summary of returns received

TABLE 2 (B)

	Unit	Great Britain		
		1948	1951	1954
FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS				
Number of establishments	No.	350	302	281
Total value of sales and work done	£'000	38,703	46,154	63,532
Products on hand for sale and work in progress	{ at beginning of year	7,049	7,409	11,214
	{ change during year	+ 2,015	+ 1,474	- 1,125
Gross output (production) (a)	..	40,469	47,627	62,407
Purchases of materials and fuel	..	23,031	28,209	37,454
Stocks of materials and fuel	{ at beginning of year	4,533	5,704	7,875
	{ change during year	+ 451	+ 1,031	- 750
Cost of materials and fuel used	..	22,580	27,178	38,204
Payment for work done on materials given out	..	145	178	258
Payment for transport (b)	..	250	413	601
Net output	..	17,744	19,859	23,345
Average number of employees	{ operatives	No. 31,050	28,353	26,926
	{ others	.. 4,201(c)	4,157	4,126
Total employment (d)	..	35,264	32,516	31,057
Net output per person employed (d)	£	503	611	752
Wages and salaries	{ of operatives	£'000 10,207	10,966	12,815
	{ of others	.. 1,852	2,000	2,351
Capital expenditure				
New building work (e)	..	156	166	230
Plant and machinery	{ acquisitions (e)	.. 541	487	738
	{ disposals	.. 66	25	24
Vehicles	{ acquisitions (e)	.. 57	69	75
	{ disposals	.. 19	13	20
FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS				
Number of returns	No.	25	38	35
Total employment, including working proprietors	..	136	203	215

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

Analysis by size, 1954

Larger establishments in Great Britain

TABLE 3 (B)

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	103	2,323	1,236	1,471	204	660	95	12	737
25 - 49	77	3,585	1,816	2,434	288	1,057	144	33	667
50 - 99	45	4,507	2,257	2,776	399	1,231	206	84	711
100 - 199	31	6,681	3,108	3,527	553	1,593	283	213	762
200 - 299	6	3,556	1,162	1,272	211	557	130	42	784
300 - 499	4	2,911	1,198	1,365	219	657	119	80	756
500 - 749	6	7,485	2,746	3,139	608	1,512	368	112	733
750 - 999	3	5,658	2,052	2,187	421	1,052	254	86	787
1,000 - 1,499	3	9,265	3,047	3,337	537	1,688	349	159	787
1,500 - 2,999	3	16,435	4,723	5,418	686	2,808	404	223	774
Total	281	62,407	23,345	26,926	4,126	12,815	2,351	1,043	752

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.

RAILWAY CARRIAGES AND WAGONS AND TRAMS

Analysis according to specialisation within the industry, 1954

Larger establishments in Great Britain

TABLE 4 (B)

	Unit	Manufacturing firms	Repairing firms	Total
Number of establishments	No.	60	221	281
Total value of sales and work done	£'000	50,127	13,405	63,532
Sales of characteristic products	"	40,830	11,214	11,214
Products on hand for sale and work in progress	"	11,083	131	- 1,125
Gross output (production)	"	- 1,152	+ 28	62,407
Purchases of materials and fuel	"	48,974	13,433	37,454
Stocks of materials and fuel	"	31,705	5,749	7,875
Cost of materials and fuel used	"	5,281	2,594	750
Payment for work done on materials given out	"	- 587	- 163	38,204
Payment for transport	"	32,292	5,911	258
Net output	"	233	25	601
Average number of employees	No.	16,000	7,345	23,345
Total employment (a)	"	17,201	9,725	26,926
Net output per person employed (a)	"	2,880	1,246	4,126
Wages and salaries	£'000	20,082	10,975	31,057
Capital expenditure	"	797	669	752
New building work (b)	"	8,544	4,272	12,815
Plant and machinery	"	1,722	630	2,351
Vehicles	"	154	76	230
	"	617	120	738
	"	21	2	24
	"	46	30	75
	"	8	13	20

(a) Excluding outworkers and including working proprietors.

(b) Excluding expenditure for establishments not yet in production.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in Great Britain

TABLE 5 (B)

	1951			1954			Entries
	Quantity		Value	Quantity		Value	
	No.	Tons	£'000	No.	Tons	£'000	
Railway carriages, excluding rail cars							
Complete							
Power driven (i.e. with traction motors driven by a current originating outside the unit)	929	25,227	8,789	{ 56 ..	1,722 ..	1,412 837	..
Other types				373	11,698	3,780	6
Parts (except axles, tyres and wheels, internal combustion engines and electric motors)	..	2,028	517	..	4,195	1,289	8
Railcars, excluding electric cars operated from a current originating outside the unit							
Complete				{ 29 ..	923 ..	590 189	7
Bogie type	187	277	224	..	..	..	..
Other, including powered trolleys and powered man-riding cars	..	..	61	200	190	140	..
Parts (except axles, tyres and wheels, internal combustion engines and electric motors)	..	..	220	..	121	102	8
Railway wagons and trucks							
Complete							
Exceeding 3 ft. in gauge	24,472	203,936	12,946	35,039	297,688	22,213	27
Not exceeding 3 ft. in gauge (including colliery tubs, trams and trucks)	..	..	310	..	..	4,387	..
Parts (except axles, tyres and wheels)	42,187	13,220	909	49,953	16,306	1,499	21
	..	..	1,467	..	..	1,655	..
	..	41,355	3,440	..	50,446	4,808	62
	..	..	650	..	..	583	..
Tramcars, complete	50	800	353	-	-	-	-

(86221)

RAILWAY CARRIAGES AND WAGONS AND TRAMS

TABLE 5 (B) (contd.)

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
		£'000	No.	£'000	Number
Portable containers	..	(a)	1,230	128	..
Lubricators (including parts, e.g., pads and shields) for railway wagon, etc. axle boxes (b)	..	412	..	142	..
Parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	..	311	..	798	6
Second-hand materials (wagons and parts, etc. broken down) (b)	..	51	..	87	7
Other manufactures, including hand-operated rail trolleys and cars, including parts, and bodies for rail vehicles, complete	..	171	..	515	8
Repair work on railway carriages, wagons, trucks and railcars, tramcars, colliery corves, trams, tubs, etc. (c) (d)		12,937 (e)		13,770	147
Other work done for the trade or on commission (e.g. machining or turning) (d)		114		136	24
Total		44,210		59,529	..
Sales in other industries (see Table 6)		4,111		4,451	..
Principal products of this industry sold by establishments in the industry		40,100		55,078	157

(a) Not recorded separately.

(b) So far as recorded separately.

(c) Excluding the values of goods made by the establishments and used in the work, which are included against the appropriate output headings.

(d) Amount charged.

(e) Including production of larger establishments in Northern Ireland classified to other industries.

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

Larger establishments in Great Britain

TABLE 6 (B)

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Tons	£'000	Number	
Parts of railway carriages, excluding rail cars (except axles, tyres and wheels, internal combustion engines and electric motors)	475	310	..	3G, 3I, 3L
Railcars, excluding electric cars operated from a current originating outside the unit, bogie type, complete; and parts of railcars (except axles, tyres and wheels, internal combustion engines and electric motors)	31	13	7	3I, 3L, 4I
Railway wagons and trucks (including colliery tubs, trams and trucks)	11,446	978	12	3B, 3C, 4I, 5E
Complete	..	828	..	..
Parts (except axles, tyres and wheels)	1,127	43	10	3B, 3D, 3L, 4I
Lubricators (including parts, e.g., pads and shields) for railway wagon, etc., axle boxes; and parts of railway carriages, rail cars, railway wagons and trucks, rail trolleys, etc. (except axles, tyres and wheels, internal combustion engines and electric motors), unclassified	..	200	6	3I, 4C, 4I

(86221)

TABLE 6 (B) (contd.)

	1954			Principal industries in which produced (a)
	Quantity	Value £'000	Entries Number	
Portable containers and other manufactures, including hand-operated rail trolleys and cars, including parts, and bodies for rail vehicles, complete	..	377	..	3I, 4I
Repair work on railway carriages, wagons, trucks and railcars, tramcars, colliery corves, trams, tubs, etc., and other work done for the trade or on commission (e.g. machining or turning) (b)		1,080	17	3C, 3J, 12C, 12D
Total		4,451	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

(b) Amount charged.

Sales in the industry of other than principal products

Larger establishments in Great Britain

TABLE 7 (B)

	1954	
	Quantity	Value £'000
Railway axles, tyres and wheels, including complete sets	1,591	206
Bodies for motor vehicles, and parts thereof	..	1,413
Machinery and parts	..	953
Structural iron and steel work	..	656
Other goods	..	3,989
Waste products	Th. tons	
Scrap iron and steel	108	708
Other	..	88
Work done (a)	..	128
		311
Total		8,454

(a) Amount charged.

TABLE 8 (B) - Total make of intermediate products

Larger establishments in Great Britain

This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in Great Britain

TABLE 9 (B)

	Quantity	Cost
	Th. tons	£'000
Materials		
Wrought tubes of iron and steel and fittings for wrought tubes	0.6	50
	..	7
Iron in all forms except finished parts and scrap	9.8	356
Steel		
Ingots, blooms, billets and slabs	31.7	1,046
Angles, sections, shapes, bars, rods, girders, beams and joists (not fabricated)	158.1	5,229
Castings in the rough or machined	28.2	2,028
Forgings (except drop forgings) in the rough or machined	5.4	410
	..	47

(86221)

TABLE 9 (B) (contd.)

	Quantity	Cost
	Th. tons	£'000
Materials (contd.)		
Steel (contd.)		
Plates and sheets 1/8 inch thick and over, and hoop and strip (including tape) of all thicknesses but excluding tin-, terne- and black-plates and sheets	132.7	4,537
Springs, laminated and other types	14.4	1,117
	..	181
Axles, tyres and wheels	88.7	6,339
Paint and varnish, including emulsion paints, cellulose based paints and lacquers	Th. gal.	
	432	379
Timber	Th. cu. ft.	
Hardwood	2,322	1,423
Softwood	3,096	1,466
Plywood (including battenboard, blockboard and laminated board)	Th. sq. ft.	
	1,138	153
Glass (including plate and sheet)	293	38
	..	6
Leather and leathercloth	..	29
Woven piece goods	Th. sq. yds.	
Of wool or mainly of wool	28	31
	..	9
Of cotton or mainly of cotton	22	3
Machinery components and accessories for incorporation in firms' finished products		
Brake gear and automatic couplings	..	1,262
Ball and roller bearings and parts thereof	..	102
Finished plastics components and fittings	..	6
Electric equipment, including batteries and accumulators, not elsewhere specified	..	643
All other components not specified elsewhere, including traction and other electric motors and parts thereof	..	5,900
Replacement parts for firms' own machinery, plant and vehicles	..	389
Consumable tools bought as replacement, including engineers small tools, jigs, fixtures and measuring instruments	..	389
All other purchased materials	..	2,604
Fuel and electricity	Th. tons	
Coal	98	315
Coke	25	142
Liquid fuel (including creosote/pitch mixtures)	Th. gal.	
For use in internal combustion engines		
Motor spirit (petrol) for use in road vehicles and deriv. fuel	288	57
Other	887	40
For burning in furnaces, boilers, kilns, etc.	1,526	64
	..	33
Gas purchased	Th. therms	
From Gas Boards	4,568	152
From other sources, including other departments of the same firms	..	2
Electricity purchased (a)	Th. kWh.	
From Electricity Boards	75,904	410
From other sources, including other departments of the same firms	4,001	19
All other purchased fuel		41
Total cost		37,454

(a) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 3,995 Th. kWh.

(86221)

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RAILWAY CARRIAGES AND WAGONS AND TRAMS
Average number of employees, and wages, salaries
and superannuation payments

Larger establishments in Great Britain (a)

TABLE 10 (B)

	1951	1954
	Number	Number
Average number of employees		
Operatives	28,353	26,926
Administrative, technical and clerical employees	4,157	4,126
Total	32,510	31,052
	£'000	£'000
Wages and salaries paid to		
Operatives	10,966	12,815
Administrative, technical and clerical employees	2,000	2,351
Total	12,966	15,167
	£	£
Wages and salaries per head		
Operatives	387	476
Administrative, technical and clerical employees	481	570
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	164
		Number
Employees covered	..	4,543
		£'000
Pension, etc. payments to former employees and dependents	..	19

(a) The following persons, not included above, were also employed by larger establishments in this industry ('other workers' include, for example, employees engaged in merchanting):

	1951	1954
	Number	Number
Canteen workers		
Males	5	2
Females	151	112
Total	156	114
Other workers		
Males	26	10
Females	28	32
Total	54	42
Total excluded employees	210	156

Employment in a specified week (a)

Larger establishments in Great Britain

TABLE 11(B)

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	6	-	6	5	-	5
Operatives	27,119	717	27,836	26,274	604	26,878
Administrative, technical and clerical employees	2,998	1,184	4,182	2,937	1,199	4,136
Total employees	30,117	1,901	32,018	29,211	1,803	31,014

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

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