The Report on the Census of Production for 1954

Volume 3: Industry L

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING



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The Report on the Census of Production for 1954

VOLUME 3, INDUSTRY L

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING

THIS REPORT on the Railway Locomotive Shops and Locomotive Manufacturing Industry relates to establishments engaged wholly or mainly in the manufacture of locomotives, mechanical 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 industry corresponds to minimum list headings 84 and 85 in the Standard Industrial Classification.

In all years, 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.

There were no larger establishments on the register for locomotive manufacturers other than railway companies in Northern Ireland for any year.

Except for Table 1 which covers the whole industry, the tables in the report are in two parts: Part A relates to Railway Locomotive Shops and Part B to Other Locomotive Manufacturers.

LIST OF TABLES

							and the same of
Table No.	Title	Pag	е	Table No.	Title	Pag	е
1	Industry summary: estimates for the industry as a whole	3/L	/3			Part A	Part B
2	Summary of returns received	Part A 3/L/3	Part B 3/L/10	6	Sales of principal products of the industry by estab- lishments classified to other industries	3/L/5	3/L/12
3	Analysis by size, 1954	3/L/4	3/L/10	7	Sales in the industry of other than principal products	3/L/6	3/L/12
4	Analysis according to specialisation within the	Does appl		8	Total make of intermediate products	THE PERSON NAMED IN COLUMN	s not
	industry, 1954	AND THE		9	Purchases of materials and fuel, 1954	3/L/7	3/L/13
5	Sales of principal products of the industry, including	3/L/4	3/L/11	10	Average number of employees and wages, salaries and superannuation payments	3/L/9	3/L/15
	of the industry, including sales of these products by establishments classified to other industries			11	Employment in a specified week	3/L/9	3/L/15

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

United Kingdor

Industry summary

Estimates for the industry as a whole

TABLE 1

TABLE 2 (A)

	a tealmat	United Kingdo	Scotland	Wales	
and the same of the same of the same	1948	1951	1954	1954 (a)	1954
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	61.2	70.2	83.6		1.72
Net output	36.9	38.5	44.9		1.19
Total stocks and work in progress At beginning of year Change during year	+ 22.3	24.9	32.7		0.13
Capital expenditure less disposals (b)	1.2	1.1	1.0		0.01
Wages and salaries	30.7	32.8	38.2		1.05
Total employment (including	Thousands	Thousands	Thousands	Thousands	Thousands
working proprietors)	88.1	82.8	78.8	1 9.11	2.21

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

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

> PART A RAILWAY LOCOMOTIVE SHOPS Summary of returns received

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 pro-

and method of taking the census are given in the separ-

ate booklet entitled 'The Report on the Census of Pro-

duction for 1954 - Introductory Notes' (price 1s. 6d.

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

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.

ducts of any other industry.

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

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

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 workpeople 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).

- .. 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.

	THE RESERVE OF THE PROPERTY OF		Britain	United Kingdom		
	product the second	Unit	1948	1951	1954	
ESTABLISHMENTS EMPLOYING ON PERSONS	AVERAGE MORE THAN 10	22751 (21.63 27.53 (21.63	3, 30 13 page 1240			
Number of establishments Total value of sales and wor Products on hand for sale and work in progress Gross output (production)	k done {at beginning of year {change during year	No. £'000	355 38,178 3,281 + 61 38,239	314 44.161 3.411 + 432 44.593	346 56,307 4,274 - 28 56,279	
Purchases of materials and f			15,065	19,381	22,757	
Stocks of materials and fuel	fat beginning of year		8,536	10,533	15,754	
Cost of materials and fuel up	t		+ 2.420	+ 1,332	- 1,108	
Payment for work done on mate		"	12,645	18.049	23,865	
Payment for transport	32.00	".			2,5	
Net output Average number of employees Total employment Net output per person employe	{operatives others	No	25,500 59,753 5,103(a) 64,856 393	26,540 56,070 5,386 61,456 432	32,390 55,513 5,901 61,414 527	
Wages and salaries	{ of operatives of others	£, 000	21,166 1,869	22,256 2,329	26.736 2,966	
Capital expenditure New building work (b)			64	105	158	
Plant and machinery	facquisitions (b)		492	349	415	
	disposals		19	21	8	
Vehicles	{acquisitions (b) disposals		11	6	2	
ESTABLISHMENTS EMPLOYING ON FEWER PERSONS			1	-01200	- I I I I I I I I I I I I I I I I I I I	
Number of returns		No.		•	-	
Total employment, including v	working proprietors		• (6)	4 600 M CO - 501 MG	-	

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

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

Analysis by size, 1954

Larger establishments in the United Kingdom

TA	BI	E	3	1	A	1

	Estab-	Gross	Net	Net Employees		Wages and	salaries	Capital	Net output per person
Average number employed	lish- ments	lish- output outpu	output	Operatives	Others	Operatives	Others	expenditure (a)	employed
	Number	£,000	£, 000	Number	Number	£,000	£' 000	£,000	£
11 - 24	108	1,652	989	1,682	171	873	89	1	534
25 - 49	108	3,331	2,022	3,434	358	1,770	189	3	533
50 - 99	65	4,001	2,489	4,147	426	2,112	220	3	544
100 - 199	37	4,385	2,604	4,411	433	2,257	223	9	538
200 - 299	11	2,175	1,359	2,286	239	1,131	122	6	538
400 - 499	2	878	516	888	69	390	38	22	539
500 - 749	3	1,870	1,020	1,791	220	794	116	18	507
1,500 - 1,999	3	4,456	2,866	4,871	488	2,395	271	74	535
2,000 - 2,499	2	4,273	2,458	4,253	381	2,015	186	36	530
2,500 - 2,999	1	2,032	1,323	2,188	313	1,069	167	40	529
3,000 - 3,999	3	10,225	5,570	9,719	895	4,555	444	86	525
4,000 - 4,999	1	4,856	2,275	3,723	537	1,776	253	47	534
5,000 - 7,499	1	5,520	3,015	5,342	603	2,481	286	91	507
7.500 and over	1	6,625	3,883	6,778	768	3,118	363	140	515
Total	346	56,279	32,390	55,513	5,901	26,736	2,966	575	527

(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 the United Kingdom

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 the United Kingdom

TABLE 5 (A)

(84368)

1954 1951 Entries Value Quantity Value Quanti ty Number Tons £'000 £'000 No. Tons Complete Steam 192 44 150 925 Under 40 tons light weight 184 14,076 3,530 207 16,243 3,059 40 tons light weight and over With internal combustion engines 1,374 52 2,428 20 960 406 Electric transmission Electric (including battery types) 612 229 659 23 2,021 40 tons light weight and over Parts for locomotives 480 266 3,410 2,091 408 } 144 24 Boilers 12 32 713 Superheater equipment including elements 1,792 4,099 Other parts of locomotives (a) 776 32(b) 293(b) 480 526 828 Railway signals (mechanical) and parts 649 Other manufactures

TABLE 5 (A) (contd.)

	19	51	1954		
	Quantity	Value	Quantity	Value	Entrie
Repair work		£'000		£'000	Number
Locomotives					
Steam	tail accepta	28,655	Burn Brown	35,336	34
Internal combustion engines with mechanical transmission		7	to probably a	21	
Internal combustion engines with electric transmission		75	222 UTL 92001	176	9
Electric (including battery type)		37		159	1
Other repair work		3			
Work done for the trade or on commission		178		-	-
Total		35,850	1200	46,077	
Sales (or transfers) in other industries (see Table 6)		449		1,416	
Principal products of this industry sold (or transferred) by establishments in the industry	- 1200 E	35,401	nios rados kar	44,661	29

(a) Excluding axles, tyres and wheels.(b) Described as railway signals, mechanical.

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

Larger establishments in the United Kingdom

TABLE 6 (A)

	1954			Principal
	Quantity Value		Entries	industries in which produced (a)
		£,000	Number	
Parts of locomotives other than boilers and superheater equipment (b)		854	5	3M, 4I
Railway signals (mechanical)		438	5	12C
Repairs to locomotives				
Steam		65	5	3M
Internal combustion engines with electric transmission	o sugar tasisti.	40		
Electric (including battery types)	A SERVICE IN	19		
Total		1,416		

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

of this report.
(b) Excluding axles, tyres and wheels.

(84368)

Sales (or transfers) in the industry of other than principal products Larger establishments in the United Kingdom

TABLE 7 (A)

	19:	54
	Quantity	Value
Parts of railway carriages, rail cars, railway wagons and		£'000
trucks (a)		1,396
Electrical railway signalling apparatus and telegraph and telephone parts		169
Railway points, switches and crossings	· 中国的 10 00 00 00 00 00 00 00 00 00 00 00 00	483
Laminated springs for locomotives	••	112
Iron castings	Th.tons	
For locomotives	12.9	198
For the permanent way	64.0	983 154
For carriages and wagons	15.1	232
Other iron castings in the rough or machined		77
Castings of brass and other copper alloys in the rough	Commence of the second	4
Repair work		er teather and the
Railway carriages, rail cars, railway wagons and trucks		248
Other repair work	Butthale ten out 12	2,582
Other products	•	281
Scrap and waste sold		
Scrap metals		The second
Iron and steel	127.1	915 116
	1.7	291
Brass	}	49
Copper	3.7	829
Soppo.	d	121
Other	5.7	1,209 215
Other waste products		73
Work done		910
Total		11,646

⁽a) Excluding axles, tyres and wheels.

TABLE 8(A) - Total make of intermediate products

Larger establishments in the United Kingdom

This table is not applicable to the industry.

RAILWAY LOCOMOTIVE SHOPS

Purchases of materials and fuel, 1954 Larger establishments in the United Kingdom

TABLE 9 (A)

	Quantity	Cost
aterials	Tons	£'000
Drop forgings of iron and steel	533	o kindenomen almaks
Wrought tubes including boiler tubes and fittings for wrought tubes of iron and steel	10,677	60
Iron	10,077	936
Pig iron	19,834	342
Castings in the rough or machined	26,993	892
Other iron except finished parts	7,413	78
	••	14
Steel		
Ingots, blooms, billets and slabs	10,114	356
Angles, sections, shapes, bars, rods, girders, beams and joists (not fabricated)	22 450	000
Castings in the rough or machined	23,458	902
Forgings (except drop forgings) in the rough or machined	1,839	435
Tin-, terne- and black-plates and tin- and terne-sheets	117	170 8
Other plates and sheets 1/8in. thick and over, and hoop and strip (including tape) of all thicknesses	31,283	
Other steel sheets and plates under 1/8in. thick including electrical sheets	1,609	1,052
Springs, laminated and other types	2,049	226
Axles, tyres and wheels	17,505	1,068
Bolts, rivets, nuts and washers, screws, nails, tacks, etc.		321
Non-ferrous metals in all forms except finished parts and scrap	dennis dan perangan	321)
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys	3,606	871
Copper	6,641	
Tin	268	2,153 189
White metal alloys (anti-friction)	1,933	854
	Th.gal.	apostona tedro em 1
Paint and varnish including emulsion paints, cellulose based paints and lacquers	125	104
Timber (including wood for packing cases)	Th.cu.ft.	unionary tolorates
Hardwood	15	12
Softwood	76	42
The state of the s	Tons	**
Engine and boiler packing	411	101
Vehicle components and accessories		
Brake gear		295
Superheater equipment including elements		345
Boilers, boiler mountings and parts not elsewhere		
specified		364

TABLE 9 (A) (contd.)

	Quantity	Cost
TO COMPANY THE PROPERTY OF THE		£'000
Materials (contd.)		2 000
Vehicle components and accessories (contd.)		H- Albitant
Diesel engines complete and parts thereof	18 18 18 18 18 18	1,249
Ball, roller and needle bearings and parts thereof	ar the second read of but	33
Traction and other electric motors and parts thereof		15
Pumps, industrial valves and parts thereof		11
Finished plastics components and fittings	the er mechanic	or ear or eradical
Electric lighting equipment not elsewhere specified	411 · 102 · 103 · 103 · 103 · 103 · 103	372
Other purchased components not elsewhere specified		1.092
Replacement parts for establishments own machinery, plant and vehicles	entrie has araid	685
Consumable tools bought as replacement, including engineers' small tools, jigs, fixtures and measuring instruments	eric aber land tempoli	241
Unclassified and all other purchased materials	Descended in the	5,325
The state of the s	Th.tons	a stancal abothuses
Fuel and electricity	and water one transmit was	a part + parter of the
Coal Manual Manu	120	386
Coke and the same states	48	246
Liquid fuels (including creosote/pitch mixtures)	The second second second	elegas incidade
	Th.gal.	herenzeel, assistant
For use in internal combustion engines	2.000	THE RESERVE OF THE PARTY OF THE
Motor spirit (petrol) for use in road vehicles and derv. fuel	87	16
Other	380	26
a arek in the last	1.749	99
For burning in furnaces, boilers, kilns, etc.	Th.therms	99
	In. therms	1,000
Gas purchased	0.204	126
From Gas Boards	2,384	126
From other sources, including other departments of the same establishments	2,184	119
	Th.kWh.	of hear evel of passes
Electricity purchased		
From Electricity Boards	67,988	413
From other sources, including other departments of the same establishments	8,831	53
Total cost		22,757

Average number of employees and wages, salaries and superannuation payments (a) Larger establishments in the United Kingdom

TABLE 10 (A)

	1951	1954
	Number	Number
Average number of employees		1111
Operatives Administrative, technical and clerical employees	56,070 5,386	55,513 5,901
Total	61,456	61,414
Wages and salaries paid to	£'000	£.000
Operatives Administrative, technical and clerical employees	22,256 2,329	26.736 2,966
Total	24,585	29,702
Wages and salaries per head	£	£
Operatives Administrative, technical and clerical employees	397 432	482 503
Superannuation and other pension funds for employees and dependents (b)		£.000
Employers contributions		311
Employees covered		Number 60,572
Pension, etc. payments to former employees and		£.000
dependents (b)		

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

980	1951	1954
Canteen workers	Number	Number
Male Female	18 253	11 274
Total	271	285
Other workers Male Female	102 96	39 44
Total	198	83
Total excluded employees.	469	368

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a) Larger establishments in the United Kingdom

TABLE 11 (A)

Numbe

Numbe									
	1951			1954					
	Males	Females	Total	Males	Females	Total			
Working proprietors	-	-	-	-					
Operatives	55,468	421	55,889	54,935	407	55,342			
Administrative, technical and clerical employees	3,829	1,550	5,379	4,308	1,602	5,910			
Total employees	59,297	1,971	61,268	59,243	2,009	61,252			

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

(84368)

(84368)

OTHER LOCOMOTIVE MANUFACTURERS

Summary of returns received

TARIF 2 (R)

		Unit	Great Britain	United Kingdom		
andro4		1948		1951	1954	
TIRMS EMPLOYING ON AVERAGE	ORE THAN 10 PERSONS					
Number of establishments		No.	39	36	31	
Total value of sales and work		£,000	21,598	23,883	28,053	
Products on hand for sale	fat beginning of year		+ 8,372	8,666 + 1,660	10,326	
and work in progress	Change during year	"	1,001	+ 1,660 25,543	- 808 27,245	
Gross output (production) (a)		"	22,823	23,343	21,245	
Rurchases of materials and fu	el		11,252	13,420	13,321	
			2,056	2,321	2,372	
Stocks of materials and fuel	Change during year		+ 400	+ 441	- 18	
Cost of materials and fuel us	ed		10,852	12,979	13,339	
Payment for work done on mate	rials given out		616	348	1,161	
Payment for transport (b)		"	158	258	231	
			11,355	11,958	12,514	
Net output	(operatives	No.	18,959	17,011	14,055	
Average number of employees	others	"	4,137(c)	4,284	3,317	
Total employment			23,100(d)	21,295	17,372	
Net output per person employe	d	£	492 (d)	562	720	
				0.000	6.578	
Wages and salaries	f of operatives	£,000	5,909	6,232 1,992	1,873	
addes did saidiles	{ of others		1,702	1,332	1,0/3	
Capital expenditure					a many bulgarity	
New building work (e)			90	123	33	
	(acquisitions (e)		510	511	433	
Plant and machinery	disposals		25	16	18	
Vehicles	facquisitions (e)		40	39	31	
venicles	disposals		4	7	8	
IRMS EMPLOYING ON AVERAGE	10 OR FEWER PERSONS		Commence of the second			
Number of returns		No.	2	5(f)	4	
Total employment, including	working					
proprietors	DEN STATE OF THE S	"	13	27(f)	23	

(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) Including working proprietors.

(c) Number in week ended September 23, 1948.
(d) Including working proprietors.
(e) Excluding expenditure for establishments not yet in production.
(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3 (B)

Average number lish		Estab-	Gross	Net	Employees Wages and salaries		Employees Wages an		ees Wages and salaries		Capital	Net outpu per person
	lish- ments	output	output	Operatives	Others	Operatives Others	expenditure (a)	employed				
	Number	£' 000	£, 000	Number	Number	£'000	£. 000	£,000	£			
11 - 99	10	573	249	289	71	128	41	7	692			
100 - 199	4	998	498	521	115	223	74	46	479			
200 - 399	4	1,668	916	986	231	441	117	42	753			
400 - 499	3	2,200	1,290	1,035	316	471	161	60	955			
500 - 749	4	4,199	1,852	1,833	571	883	315	88	771			
750 and over	6	17,606	7,708	9,391	2,013	4,432	1,165	254	676			
Total	31	27,245	12,514	14,055	3,317	6,578	1,873	497	720			

(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(B) - Analysis according to specialisation within the industry, 1954 Larger establishments in the United Kingdom

No specialisation within this industry was distinguished.

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

Larger establishments in the United Kingdom

TABLE 5 (B)

		193	51		1954			
	Quo	n ti ty	Value	Qu	antity	Value	Entries	
Locomotives	Not	Tons	£'000	No.	Tons	£,000	Number	
Complete (a)								
Steam								
Under 40 tons light weight	107		737		2,290	650	7	
40 tons light weight and over	398	34,372	8,723	344		11,607	11	
With internal combustion engines								
Mechanical transmission								
Under 200 b.h.p.	671		1,442		2,227	981	7	
200 b.h.p. and over	12	434	159	35	1,323	636		
Electric transmission	55		1,314			2,628		
Electric (including battery type)								
Under 40 tons light weight	h		(61		
40 tons light weight and over	70	••	159 {			1,180		
Parts of locomotives								
Boilers	227		842		3,184	991	12	
Superheater equipment including elements	1	12,813	3.205			877	5	
Other parts of locomotives (b)	1 ::		979	c	16,652	4,691	35	
Other parts of locomotives (b)	1			11		2,435	h 22	
Road rollers, complete and parts	1	6,023	1,534	}		2,804	25	
Railway signals (mechanical)	ч		323	1		100		
Turntables			50					
Brake gears and automatic couplings			1.760	} ::	3,342	632(c) 1,916	} 12	
Other manufactures			11	11		1,310	1	
Repair work (d)								
Steam locomotives			354(e)			2.56	12	
Other locomotives			42			94	10	
Other repair work			42			14		
Work done for the trade or on commission (d)	1		192			234	8	
	-		22,160			32,687		
Total							••	
Sales in other industries (see Table 6)			3,492			6,671		
Principal products of this industry sold by establishments in the industry			18,668			26,016	29	

(a) Includes complete locomotives exported in parts.

(b) Excluding axles, tyres and wheels.

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

(d) Amount charged.

(e) Including repair work to steam locomotives by larger establishments in Northern Ireland classified to other industries.

OTHER LOCOMOTIVE MANUFACTURERS

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

Larger establishments in the United Kingdom

TABLE 6 (B)

		1954		Principal
sensor an estate printer, extensor	Quantity	Value	Entries	industries in which produced (a)
	Tons	£,000	Number	of recor influen
Locomotives, complete, including steam, internal combustion and electric		1,333	8	3M, 4I, 4K
Parts of locomotives (b)	5,752	1,273	} 14	3B, 4I, 5E
Parts of locomotives (2)	.,	304	P	
Road rollers, complete and parts; mechanical railway signals; turntables and brake gears		3,667	28	41, 4K, 5E
Repairs to internal combustion locomotives and work done for the trade or on commission (c)		94		
		6,671		

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

this report.

(b) Excluding axles, tyres and wheels.

(c) Amount charged.

Sales in the industry of other than principal products Larger establishments in the United Kingdom

TABLE 7 (B)

	198	54
	Quantity	Value
		£,000
Parts of railway carriages, rail cars, railway wagons and trucks (a)	manifest villages	181
Engineering castings and forgings	••	140
Machinery and parts		
Agricultural, mining, roadmaking and earth moving machinery	ACTUAL TOWN	el repuis
Complete machines		467
Parts		131
Other		486
Other engineering products		328
Scrap and waste sold		
Scrap metals		
Iron and steel		119
Brass	4	81
Copper		20
Other	Characteristics as the little	7
Other waste products		2
Work done (b)	• • • • • • • • • • • • • • • • • • • •	75
Total		2,037

(a) Excluding axles, tyres and wheels.(b) Amount charged.

TABLE 8(B) - Total make of intermediate products Larger establishments in the United Kingdom This table is not applicable to the industry.

OTHER LOCOMOTIVE MANUFACTURERS Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9 (B)

yelsang	Quantity	Cost
009.3	Tons	£'000
terials	315	39
Drop forgings of iron or steel	313	35
Wrought tubes including boiler tubes and fittings for wrought tubes of iron or steel	2,598	313
Iron	1 001	eres parting traced.
Pig iron	4,904	111
Castings in the rough or machined		238
Other iron except finished parts	984	24
Steel		
Ingots, blooms, billets and slabs	9,947	367
Angles, sections, shapes, bars, rods, girders, beams and joists (not fabricated)	10,561	444
Castings in the rough or machined	5,567	967
Forgings (except drop forgings) in the rough or machined	649	76
Tin-, terne- and black-plates and tin- and terne-sheets	55	3
Other plates and sheets 1/8in. thick and over, and hoop and strip (including tape) of all thicknesses	24,634	916
Other steel sheets and plates under 1/8in. thick including electrical sheets	1,287	52
Springs, laminated and other types	980	139 31
Axles, tyres and wheels	7,587	710
Bolts, rivets, nuts and washers, screws, nails, tacks, etc.	manufaction and transfered	135
Non-ferrous metals in all forms except finished parts and scrap	u saria al fila sa	
Brass and other copper alloys, including nickel silver and cupro-nickel, but excluding all other nickel alloys	1,129	301 115
Copper	riverst	448
Tin	55	39
White metal alloys (anti friction)	25	12
	Th.gal.	
Paint and varnish including emulsion paints, cellulose	36.6	41
based paints and lacquers	and the same street	5
	Th.cu.ft.	
Timber (including wood for packing cases)		25
Hardwood	••	25 85
Softwood	129	15
Vehicle components and accessories		
Brake gear		289
Superheater equipment including elements		241

TABLE 9(B) (contd.)

test segtemble	Quantity	Cost
900°1		£'000
Materials (contd.)		The state of the s
Vehicle components and accessories (contd.)	5.881 W. 20	want to manipact good
Boilers, boiler mountings and parts not elsewhere	Tritt bis ment telling	erraine, seems emporer
specified		49
Diesel engines complete and parts thereof	••	1,041
Ball, roller and needle bearings and parts thereof	beautions va	231
Pumps, industrial valves and parts thereof	• Plan mana	24
Electric lighting equipment not elsewhere specified	••	170
Other purchased components not elsewhere specified including traction and other electric motors and parts	refere also	3,060
Replacement parts for firms machinery, plant and vehicles		396
Consumable tools bought as replacement, including engineers small tools, jigs, fixtures and measuring instruments	Concessor as the couple	191
Unclassified and all other purchased materials	bap - align - 1 · to that aligned	1,233
qual tax	Th, tons	ode how testedy needs the
uel and electricity	concentrate him increments	eribuleshi gista ken
C∞1	46	180
Coke	16	93
	Th.gal.	
Liquid fuels (including creosote/pitch mixtures)		adification spaces consider
For use in internal combustion engines	an annual Windshow ha	25
For burning in furnaces, boilers, kilns, etc.	3,180	125
	Th.therms	books and a ben want
Gas purchased	aleka radzo Ila imelaiko	A Maria de La Caractería de la Caracterí
From Gas Boards and other sources, including other		3 6404.5
departments of the same firm	2,173	94
	Th.kWh.	t anothe total stills
Electricity purchased		
From Electricity Boards and other sources, including other departments of the same firm	46,619	227
Total cost	1 190 month of Marco No.	13,321

Average number of employees and wages, salaries and superannuation payments (a) Larger establishments in the United Kingdom

TABLE 10(B)

	1951	1954
Average number of employees	Number	Number
Operatives Administrative, technical and clerical employees	17,011 4,284	14,055 3,317
Total	21,295	17,372
Wages and salaries paid to	£,000	£,000
Operatives Administrative, technical and clerical employees	6,232 1,992	6,578 1,873
Total	8,224	8,451
Wages and salaries per head	£	£
Operatives Administrative, technical and clerical employees	366 465	468 565
Superannuation and other pension funds for employees and dependents		£,000
Employers' contributions		93
Employees covered		Number 3,584
		£,000
Pension, etc. payments to former employees and dependents		16

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

	1951	1954
Canteen workers	Number	Number
Male	6	5
Female	120	99
Total	126	104
Other workers		
Male	16	26
Female	32	33
Total	48	59
Total excluded employees	174	163

Employment in a specified week (a) Larger establishments in the United Kingdom

TABLE 11(B)

	N	um	be	r
--	---	----	----	---

		1951		1954			
	Males	Females	Total	Males	Females	Total	
Working proprietors		•					
Operatives	15,932	809	16,741	13,579	320	13,899	
Administrative, technical and clerical employees	3,191	1,185	4,376	2,377	945	3,322	
Total employees	19,123	1,994	21,117	15,956	1,265	17,221	

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

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