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BOARD OF TRADE

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 63
MOTOR VEHICLE MANUFACTURING

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

LONDON : HER MAJESTY'S STATIONERY OFFICE
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THREE SHILLINGS NET

NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years the census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to merchanting or factoring, canteens operated by them, and other ancillary activities, such as bottling, packing, and the manufacture of containers for packing their own products, whether or not these activities were carried on at the same address as the works, unless

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

EMPLOYMENT

(i) Working proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are excluded.

(ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include 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, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses and, for 1958, canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included, but outworkers (i.e. persons employed by the firm who worked on materials

supplied by the firm in their own homes, etc.) are excluded.

(iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing

materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchanting or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are therefore excluded. Materials purchased overseas were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it 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. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchanting and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

SALES

Sales include goods made by the business covered by the return, those made for it by outworkers or by other firms from materials given out to them (sometimes described as goods made on commission), and waste products sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchanted or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas, are included at the f.o.b. value. For work done on commission or for the trade, the value shown is the net amount charged. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchanting or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to subcontractors, and no deduction is made on account of progress payments received.

TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

WAGES AND SALARIES

These are the amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

WORK GIVEN OUT

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

The Report on the Census of Production for 1958

Part 63. MOTOR VEHICLE MANUFACTURING

This report on the Motor Vehicle Manufacturing Industry relates to establishments engaged in the manufacture and assembly of passenger cars, commercial goods vehicles, buses, trolley buses, wheeled tractors, works trucks, motor-drawn trailers and caravans, and parts and accessories for such vehicles including bodies, chassis and chassis frames for cars and commercial vehicles, cabs for commercial vehicles, motor body shells, internal combustion engines, axles, brakes and clutches (other than linings), carburettors, fuel injection pumps, gear boxes, heaters, hoods, propeller shafts, radiators and radiator blocks, registration plates, shock absorbers and dampers, steering gear, tipping gear, wheels and windscreen wipers (not electrical) and other non-electrical parts and accessories except instruments, gaskets and jointings. The report includes three-wheel tractors, battery-electric vehicles and works trucks but other three-wheel vehicles are excluded. The industry corresponds to minimum list heading 381 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry formed part of Industry 3I in the reports on the last detailed Census of Production, for 1954. The Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing Industry, which also formed part of Industry 3I, now corresponds to minimum list heading 382 and is the subject of a separate report, Part 64, for 1958. Crawler tractors, formerly included in Industry 3I, now form part of minimum list heading 336 and are included in the report on Contractors' Plant and Quarrying Machinery (Part 47); armoured cars, formerly included in Industry 4I (Mechanical Engineering (General)) are now included in this industry; electrical accessories and other electrical equipment form part of minimum list heading 369 and are included in the report on the Miscellaneous Electrical Goods Industry (Part 61); instruments, gaskets and jointings form part of minimum list heading 349 and are included in the report on the General Mechanical Engineering Industry (Part 53).

For 1958, returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an important change from previous censuses when returns in full detail were required from firms employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

METHOD OF CLASSIFICATION

This industry is defined in terms of its 'principal products' which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry accounted for a greater proportion of its output than the principal products of any other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the

same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. Sales of merchanted products and of non-specific items such as waste products, work done and canteen takings were not taken into account in classifying returns.

A slightly different procedure was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. A census return was classified to a particular sub-division only if more than 50 per cent. of the total value of goods sold and work done (excluding merchanted goods and canteen takings) consisted of characteristic products of the sub-divisions. If the value of characteristic products in no case exceeded 50 per cent. of the total, the return was classified to 'Other'. The total value of sales of characteristic products shown in Table 2 includes, besides the products which define the sub-divisions, other items of output assumed to be closely related to them, e.g. waste products and non-specific work done, but such items were not generally taken into account in determining the classification to sub-divisions.

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Industry summary: United Kingdom

TABLE 1 Estimates for all firms (a)

	Unit	1954	1958	
Number of enterprises	No.	..	948	
Number of establishments	"	..	1,111	
Sales	{ goods produced and work done	£'000	884,826	1,285,468
	{ merchanted goods and canteen takings	"	..	58,191
Purchases of materials and fuel (b)	"	556,553	918,808	
Products on hand for sale (b)	{ change during year	"	- 1,877	+ 5,490
	{ at end of year	"	30,090	47,901
Work in progress	{ change during year	"	+ 1,715	+ 269
	{ at end of year	"	58,881	78,386
Stocks of materials and fuel (b)	{ change during year	"	- 5,121	- 5,261
	{ at end of year	"	47,943	69,516
Payments for work done on materials given out	"	9,420	8,144	
Payments for transport	"	4,634	6,662	
Net output	"	308,935	410,543	
Average number employed (c)	{ operatives	Th.	257.5	275.5
	{ other employees	"	55.4	65.3
	{ total, including working proprietors	"	313.0	341.0
Wages and salaries	{ of operatives	£'000	142,482	197,765
	{ of other employees	"	33,092	50,151
Capital expenditure (d)				
New building work	"	3,793	13,321	
Plant and machinery	{ acquisitions	"	19,066	29,918
	{ disposals	"	1,291	1,407
Vehicles	{ acquisitions	"	1,248	1,913
	{ disposals	"	367	660

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 2 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchenting and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchenting or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions
Firms employing 25 or more

TABLE 2

	Unit	Sub-divisions of the industry (b)		
		Cars and taxis and chassis with engines and delivery vans		
		01		
		1954	1958	
Number of enterprises (c)	No.	11	12	
Number of establishments	"	25	29	
Sales	{ goods produced and work done	£'000	320,923	587,210
	{ merchanted goods and canteen takings	"	..	28,019
Sales of characteristic products	"	242,111	431,164	
Purchases of materials and fuel (d)	"	226,406	458,517	
Products on hand for sale (d)	{ change during year	"	- 1,407	+ 1,915
	{ at end of year	"	8,528	23,299
Work in progress	{ change during year	"	+ 353	- 3,355
	{ at end of year	"	12,966	17,672
Stocks of materials and fuel (d)	{ change during year	"	- 838	- 2,614
	{ at end of year	"	8,490	23,203
Payments for work done on materials given out	"	2,584	2,256	
Payments for transport	"	1,236	2,695	
Net output	"	88,805	147,706	
Average number employed (e)	{ operatives	No.	58,672	78,517
	{ other employees	"	11,733	17,727
	{ total, including working proprietors	"	70,405	96,248
Net output per person employed	£	1,261	1,535	
Wages and salaries	{ of operatives	£'000	34,775	63,190
	{ of other employees	"	7,393	14,302
Wages and salaries per head	{ operatives	£	593	805
	{ other employees	"	630	807
Capital expenditure (f)				
New building work	£'000	310	5,918	
Plant and machinery	{ acquisitions	"	6,052	13,382
	{ disposals	"	457	205
Vehicles	{ acquisitions	"	288	507
	{ disposals	"	138	211

of the industry

persons: United Kingdom (a)

	Sub-divisions of the industry (b)							
	Commercial vehicles and chassis with engines, excluding delivery vans		Wheeled and half-track tractors		Industrial and works trucks and tractors		Motor bodies	
	02		03		04		05	
	1954	1958	1954	1958	1954	1958	1954	1958
	26	27	9	12	7	6	106	100
	50	34	15	21	9	6	145	131
	68,099	103,286	11,149	12,018	2,895	5,837	108,870	176,700
	..	14,168	..	64	..	717	..	3,891
	54,261	73,928	6,107	8,671	2,191	4,727	92,400	159,237
	43,472	85,301	6,582	8,333	1,965	3,921	59,146	111,886
	+ 450	+ 1,039	- 57	+ 218	- 7	+ 1	- 98	- 84
	8,020	7,369	432	973	39	195	662	466
	- 51	+ 275	- 316	+ 6	+ 108	- 135	+ 925	+ 1,919
	6,994	15,179	2,017	1,692	529	1,175	9,289	15,098
	- 1,786	- 439	- 19	+ 259	- 42	+ 13	+ 3	- 555
	6,005	9,722	892	903	346	774	7,385	9,273
	621	449	104	101	153	214	2,204	905
	252	328	89	201	20	36	850	1,381
	22,367	32,251	3,981	3,930	815	2,263	47,500	67,699
	20,743	24,658	3,854	3,045	873	1,249	51,247	55,783
	6,026	7,460	1,324	1,191	468	949	7,085	8,802
	26,769	32,119	5,179	4,236	1,341	2,198	58,342	64,592
	836	1,004	769	928	608	1,029	814	1,048
	9,778	14,995	1,791	1,969	381	747	30,056	43,600
	3,329	5,319	624	852	257	605	4,488	7,459
	471	608	465	647	436	599	586	782
	552	713	471	716	549	637	633	847
	372	208	4	20	93	195	532	2,931
	1,002	1,099	310	121	38	44	2,117	4,997
	28	251	32	48	-	-	82	70
	101	257	26	66	21	33	244	233
	46	119	8	23	3	12	45	67

Continued on next page

TABLE 2 (contd.)

	Unit	Sub-divisions of the industry (b)		
		Trailers (motor-drawn), caravans and parts therefor		
		06		
		1954	1958	
Number of enterprises (c)	No.	42	53	
Number of establishments	"	51	61	
Sales	{ goods produced and work done	£'000	10,947	17,634
	{ merchanted goods and canteen takings	"	..	24
Sales of characteristic products	"	10,311	16,006	
Purchases of materials and fuel (d)	"	6,656	11,549	
Products on hand for sale (d)	{ change during year	"	+ 79	+ 196
	{ at end of year	"	363	557
Work in progress	{ change during year	"	+ 52	+ 202
	{ at end of year	"	376	897
Stocks of materials and fuel (d)	{ change during year	"	- 97	+ 201
	{ at end of year	"	1,076	1,967
Payments for work done on materials given out	"	204	220	
Payments for transport	"	85	149	
Net output	"	4,036	6,337	
Average number employed (e)	{ operatives	No.	3,878	5,108
	{ other employees	"	752	889
	{ total, including working proprietors	"	4,639	6,006
Net output per person employed	£	870	1,055	
Wages and salaries	{ of operatives	£'000	1,766	3,201
	{ of other employees	"	490	671
Wages and salaries per head	{ operatives	£	455	627
	{ other employees	"	651	754
Capital expenditure (f)				
New building work	£'000	83	133	
Plant and machinery	{ acquisitions	"	137	64
	{ disposals	"	4	1
Vehicles	{ acquisitions	"	42	84
	{ disposals	"	9	30

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

Number of returns	1958
Average number of persons employed including working proprietors	529
Males	4,584
Females	742

Sub-divisions of the industry (b)						Total	
Internal combustion engines		Parts and accessories of motor vehicles not elsewhere specified		Other			
07		08		09			
1954	1958	1954	1958	1954	1958	1954	1958
6	7	169	135	65	64	417	393
8	8	219	178	106	83	628	551
30,181	38,327	131,688	167,508	183,605	153,024	868,356	1,261,544
..	109	..	1,049	..	9,067	..	57,108
27,347	33,801	112,335	143,665				
18,564	24,613	71,526	95,558	111,876	102,030	546,194	901,708
+ 286	+ 128	+ 12	+ 997	- 1,100	+ 977	- 1,842	+ 5,388
1,925	2,550	3,998	5,259	5,563	6,343	29,530	47,010
+ 81	+ 151	+ 136	+ 1,803	+ 396	- 602	+ 1,683	+ 264
2,209	3,008	7,145	10,764	16,260	11,443	57,785	76,927
- 398	- 208	+ 93	- 425	- 1,941	- 1,394	- 5,026	- 5,163
1,211	1,414	9,394	10,291	12,251	10,676	47,051	68,221
79	562	1,759	2,357	1,537	927	9,245	7,992
71	150	846	939	1,097	661	4,548	6,538
11,435	13,183	57,797	72,078	66,450	57,454	303,185	402,902
9,696	11,476	52,933	51,595	50,988	39,070	252,884	270,501
2,406	3,290	11,450	13,102	13,164	10,707	54,408	64,117
12,102	14,766	64,392	64,699	64,156	49,779	307,325	334,643
945	892	898	1,114	1,036	1,154	987	1,204
5,230	7,417	25,820	31,932	30,312	27,142	139,908	194,192
1,293	2,343	6,937	9,910	7,684	7,785	32,495	49,245
539	646	488	619	594	695	553	718
537	712	606	756	584	727	597	768
76	45	804	1,785	701	1,623	2,976	12,857
535	644	3,876	4,603	4,637	4,378	18,704	29,333
40	26	191	119	432	661	1,267	1,381
35	22	358	500	110	175	1,225	1,876
12	5	66	129	33	53	361	647

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.

(c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.

(d) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(e) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

(f) Excluding expenditure at establishments not yet in production.

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles (contd.)						
Commercial vehicles (other than taxis, station wagons, estate cars, three-wheeled vehicles, tractors and industrial trucks but including fire engines and ambulances) and chassis with engines therefor (contd.)						
01 Delivery vans and pickups (excluding station wagons and estate cars) under 15 cwt. carrying capacity with internal combustion engines, complete (assembled or otherwise) (c)	134,138	45,607	143,178	50,878	10	12
Other goods vehicles with internal combustion engines, complete (assembled or otherwise)						
Not exceeding 3 tons unladen weight						
02 With compression ignition engines	19,731	14,636	5,640	4,396	13	14
02 Other	15,297	7,392	33,134	14,613	6	7
Exceeding 3 tons unladen weight						
02 With compression ignition engines	3,571	6,720	6,302	10,170	21	22
02 Other	1,504	1,527	1,320	1,394	5	5
Chassis for goods vehicles, with internal combustion engines (d)						
02 With compression ignition engines	31,228	32,961	59,158	56,789	18	22
02 Other	52,339	26,218	50,725	27,522	14	15
Total goods vehicles with internal combustion engines, and chassis with engines therefor		135,061		165,763	..	..
Electrically operated goods vehicles and special purpose vehicles (other than industrial trucks)						
Complete vehicles (assembled or otherwise) and chassis with engines sold separately						
02 Pedestrian controlled	362	136	1,720	1,723	9	9
02 Other	746	657				
02 Chassis with engines not separately distinguished	334	102				
.. Other vehicles, (fire engines, ambulances, armoured cars and troop carriers, electrically propelled cars, and motor vehicles not separately distinguished) (e)	1,406	4,456	656	1,222	16	16
	..	7,944	..	3,352		

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
	Number	£'000	Number	£'000	Number	Number
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles (contd.)						
Tractors (including three-wheeled tractors but excluding works tractors) complete						
Wheeled and half-track						
03 Under 10 h.p.	139,219	55,284	171,481	76,253	20	20
03 10 h.p. and over						
02 4 Motive units for articulated vehicles	2,875	4,563	1,693	2,963	13	15
Total tractors (except works tractors)		59,846		79,217	..	..
Industrial and works trucks and works tractors (of the types used in factories, warehouses railway stations and docks) complete						
Trucks						
Fork lift						
04 Electrically operated	1,470	1,699	2,877	3,436	15	15
04 With I.C. engines	1,277	1,761	1,052	2,066	12	12
Platform and other						
04 Electrically operated	2,215	902	1,213	929	9	9
04 With I.C. engines							..	844	..	673	7	7
04 Works tractors	437	260	314	397	9	9
09 Reconditioned motor vehicles	..	318	..	784	9	9
Parts and accessories of motor vehicles and tractors (excluding chassis with engines) sold separately (f)						
Motor bodies complete						
05 For cars and taxis	296,131	37,182	437,647	72,485	16	20
05 For station wagons and estate cars		(g)	50,555	7,298	11	12
For commercial vehicles						
Passenger vehicles						
05 Single deck	2,350	4,392	2,729	5,691	26	29
05 Double deck	2,118	4,789	1,953	5,211	11	13
05 Delivery vans (excluding station wagons and estate cars) under 15 cwt. carrying capacity (c)	47,695	5,081	80,617	10,834	26	26
05 Other goods and commercial vehicles	24,847	6,458	24,342	8,094	96	98
	..	729	..	1,147		
Total motor bodies complete		58,632		110,758	..	..

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Number	£'000	Number	£'000	Number	Number
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles (contd.)						
Parts and accessories of motor vehicles and tractors (excluding chassis with engines) sold separately (f) (contd.)						
05 Cabs for goods vehicles	42,989	3,360	62,336	4,949	52	55
Other parts of motor bodies						
05 Motor body shells	385,311	24,664	449,851	33,712	20	21
05 Panels for goods vehicles	No. of sets 21,056 ..	718 1,034	No. of sets 72,059 ..	2,855 1,255	16	17
05 Sheet metal (bonnets, wings, petrol tanks, etc.), not elsewhere specified	..	9,019	..	11,752	73	83
08 Hoods	..	(g)	..	1,749	11	12
08 Other	..	7,232	..	13,051	37	42
09 Chassis without engines	..	5,933	..	5,766	14	14
09 Chassis frames	..	5,933	..	5,766	14	14
Internal combustion engines complete						
New	Number		Number			
07 Compression ignition	84,061 ..	20,695 6,523	218,417	36,877	16	20
07 Other	95,268	9,948	214,799	16,670	13	13
07 Reconditioned	84,190 ..	4,212 3,545	257,479	8,671	21	24
07 Parts of engines not elsewhere specified, new and reconditioned	..	8,539	..	13,162	20	23
08 Gear boxes (new and reconditioned)	53,585 ..	2,463 766	90,969 ..	3,556 1,279	29	32
08 Carburettors (new and reconditioned)	Th. 1,465	2,464	Th. ..	3,550	10	10
08 Fuel injection pumps	..	(g)	403	5,741	7	7
08 Radiators, complete	1,668	8,126	930	6,520	19	21
08 Radiator blocks	..	..	882	1,288	9	10
08 Registration plates of all kinds	1,193 ..	503 97	..	957(h)	5	5
08 Steering gear (and parts) new and reconditioned	..	6,519	..	10,805	28	31
08 Axles (new and reconditioned)	..	10,435	..	21,585	30	36
08 Wheels and parts thereof, not included elsewhere (except tyres sold separately)	..	8,802	..	8,914	17	18
08 Brakes and parts thereof, other than linings containing asbestos and brake cables sold separately	..	16,359	..	23,628	31	36

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Th.	£'000	Th.	£'000	Number	Number
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles (contd.)						
Parts and accessories of motor vehicles and tractors (excluding chassis with engines) sold separately (f) (contd.)						
08 Clutches and parts thereof, other than linings containing asbestos	..	4,472	..	5,561	22	23
08 Shock absorbers and dampers	..	(g)	..	4,805	12	13
08 Windscreen wipers (not electrical) and parts thereof	..	1,430	..	610	..	..
08 Heaters	..	(g)	1,780	6,044	9	11
Tipping gear						
08 Complete	..	2,108	..	2,191	12	12
08 Parts including hydraulic pumps sold separately	..	2,108	..	473	14	14
03 Parts and accessories of tractors not elsewhere specified (i)	..	6,423	..	10,453	90	92
08 Other, including propeller shafts, and other parts and accessories new and reconditioned (except instruments, electrical equipment and chassis with engines), not elsewhere specified (i)	..	83,138	..	96,598	190	192
Trailers and caravans, complete						
Trailers						
06 Goods carrying, car type	Number 2,645	337	Number 2,725	304	11	11
06 Goods carrying, semi-trailers	6,462	3,028	6,446	3,958	15	15
06 For industrial trucks	2,401	664	..	231	8	8
Other						
06 Of a capacity not exceeding 5 tons	10,705 ..	1,317 590	3,259	1,079	21	21
06 Of a capacity exceeding 5 tons	..	2,126	1,078	721	18	18
06 Caravans	14,688	4,720	29,780	10,663	34	34
06 Parts of trailers and caravans	..	1,092	..	2,277	46	47
Other products	..	1,926	..	5,084	85	94
Waste products						
Scrap iron and steel	Th. tons 442 ..	2,157 513	Th. tons 581 ..	5,201 1,234	202	210
Other scrap metal	..	1,825	..	1,765	185	197
Other waste products	..	222	..	235	58	62

TABLE 4 (contd.)

Industry sub-division (a)	1954		1958			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
Repair work						
To motor vehicles, including fork lift trucks		7,056		8,453	133	140
Other		1,854		1,411	56	56
Research and development work (h)		422		761	7	7
Work done on commission, sub-contract work, etc.		6,573		6,291	61	64
Total		840,495		1,219,995	..	..
Sales in other industries (see Table 5)		29,192		28,520	..	..
Principal products of this industry sold by establishments in the industry		811,302		1,191,476	393	443 (j)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (b) Of the total output of passenger vehicles and chassis in 1958, 7,155 are recorded as fitted with compression ignition engines.
- (c) Not restricted to 'under 15 cwt. carrying capacity' for 1954.
- (d) Of the total output of chassis for goods vehicles in 1958, 58,883, when complete with body, would not exceed 3 tons unladen weight.
- (e) For tanks, armoured bulldozers, etc., see the Ordnance and Small Arms Industry.
- (f) For 1954, some motor vehicle parts and accessories manufactured by establishments classified to the Motor Cycle, Three-wheel Vehicle, and Pedal Cycle Manufacturing Industry, cannot be separately distinguished and are included with the principal products of that industry.
- (g) Not separately recorded.
- (h) So far as separately distinguished.
- (i) For transmission chains and ball and roller bearings, see the General Mechanical Engineering Industry; for electrical equipment, the Miscellaneous Electrical Goods Industry; for springs, the Miscellaneous Metal Manufactures Industry; for brake and clutch linings containing asbestos, the Asbestos Industry; and for rubber tyres and tubes, the Rubber Industry.
- (j) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

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

TABLE 5 Firms employing 25 or more persons: United Kingdom

	1954		1958			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Number	£'000	Number	£'000	Number	
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles						
Cars (including taxis, station wagons and estate cars but excluding three-wheeled vehicles) and chassis with engines therefor						
Commercial vehicles (other than taxis, station wagons, estate cars, three-wheeled vehicles, tractors and industrial trucks but including fire engines and ambulances) and chassis with engines therefor	..	3,884	951	1,122	12	53, 65, 67, 75
Reconditioned motor vehicles						
Tractors (including three-wheeled tractors but excluding works tractors) complete						
Wheeled and half-track						
Under 10 h.p.			30	15	..	(b)
10 h.p. and over	8,065	4,779	2,329	1,295	8	42, 43, 45, 47
Industrial and works trucks and works tractors (of the types used in factories, warehouses, railway stations and docks) complete						
Trucks						
Fork lift						
Electrically operated			734	481	8	42, 43, 47, 48
With I.C. engines	..	505				
Platform and other	1,225	498	1,017	450	6	42, 43, 45, 75
Works tractors						
Parts and accessories of motor vehicles and tractors (excluding chassis with engines) sold separately (c)						
Motor bodies complete			..	1,679	14	51, 65, 67, 110
Cabs for goods vehicles		1,540	..	58	5	42, 65, 75
Other parts of motor bodies, shells, panels for goods vehicles and sheet metal (bonnets, wings, petrol tanks, etc.)	..	1,209	..	1,748	34	64, 65, 67, 75
Internal combustion engines						
New	554	73	..	402	..	45, 53, 64, 65
Reconditioned	..	43				

TABLE 5 (contd.)

	1954		1958			
	Quantity	Value £'000	Quantity	Value £'000	Entries Number	Principal industries in which produced (a)
Motor vehicles (including electrically driven vehicles) other than motor cycles and three-wheeled vehicles (contd.)						
Parts and accessories of motor vehicles and tractors (excluding chassis with engines) sold separately (c) (contd.)						
Steering gear (and parts) new and reconditioned		(d)	..	285	..	53, 61, 64
Brakes and parts thereof, other than linings containing asbestos and brake cables sold separately	..	728	..	1,430	8	56, 65, 71, 75
Parts and accessories of tractors not elsewhere specified	..	2,476	..	1,512	45	(e)
Other parts and accessories new and reconditioned (except instruments, electrical equipment, and chassis with engines), not elsewhere specified	..	13,153	..	14,240	100	51, 53, 65, 75
Trailers and caravan						
Complete	..	201	}	620	13	
Parts	..	101				
Total		29,192		28,520	..	

(a) The references given are to the list of industries at the back of this report.

(b) No significant production was recorded in other industries.

(c) For 1954, some parts and accessories of motor vehicles, manufactured by establishments classified to the Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing Industry, cannot be separately distinguished and are included with the principal products of that industry.

(d) Not separately recorded.

(e) Production is widely distributed.

Sales of other than principal products by larger firms in the industry

TABLE 6 Firms employing 25 or more persons: United Kingdom

	1954		1958	
	Quantity	Value £'000	Quantity	Value £'000
Pig iron and iron and steel castings	..	1,397	..	4,812
Agricultural machinery and parts	..	1,751	..	6,654
Metal working machine tools and parts, and engineers' small tools and gauges	..	4,315	..	6,624
Industrial engines, complete and parts	..	2,551	..	572
Contractors' plant and quarrying machinery, and mechanical handling equipment and parts	..	2,439	..	4,146
Non-electrical industrial machinery (a)	..	2,590	..	623
Industrial plant and steelwork, including parts	..	1,371	..	800
Ordnance and small arms, including parts	..	4,525	..	1,607
Other mechanical engineering products	..	6,579	..	12,688
Electrical machinery	..	2,188	..	1,994
Electrical equipment for motor vehicles, cycles and aircraft	..	1,248	..	3,990
Other electrical products	..	2,427	..	3,311
Marine machinery, complete and parts	..	990	..	1,338
Motor cycles and three-wheeled vehicles complete	}	1,028	..	481
Parts of motor cycles and three-wheeled vehicles			..	844
Parts of cycles	..	493	..	314
Aircraft parts and accessories	..	12,936	..	5,148
Locomotives, railway carriages and wagons, complete and parts	..	625	..	2,496
Vehicles, not mechanically propelled, complete and parts	..	408	..	486
Miscellaneous metal manufactures	..	3,060	..	5,507
Other products	..	4,133	..	5,635
Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)	55,860
Canteen takings		..		1,247
Total		..		127,176

(a) Including complete machines and parts, not separately distinguished.

TABLE 7 - Total make of intermediate products, 1958

This table is not applicable to the industry.

Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

	Males	Females	Total
	Number	Number	Number
Working proprietors	24	1	25
Operatives	243,816	26,352	270,168
Administrative, technical and clerical employees	45,890	19,289	65,179
Total employees	289,706	45,641	335,347
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 17.4	£ 7.6	£ 14.5

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- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery
- 14 Fruit and Vegetable Products
- 15 Animal and Poultry Foods
- 16 Margarine
- 17 Starch and Miscellaneous Food Industries
- 18 Brewing and Malting
- 19 Spirit Distilling and Compounding
- 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining
- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers, and Chemicals for Pest Control
- 27 Coal-tar Products
- 28 Chemicals (General)
- 29 Pharmaceutical Preparations
- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishes
- 37 Gelatine, Adhesives, etc.
- 38 Iron and Steel (General)
- 39 Steel Tubes
- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
- 42 Agricultural Machinery (except Tractors)
- 43 Metal-working Machine Tools
- 44 Engineers' Small Tools and Gauges
- 45 Industrial Engines
- 46 Textile Machinery and Accessories
- 47 Contractors' Plant and Quarrying Machinery
- 48 Mechanical Handling Equipment
- 49 Office Machinery
- 50 Miscellaneous (Non-electrical) Machinery
- 51 Industrial Plant and Steelwork
- 52 Ordnance and Small Arms
- 53 General Mechanical Engineering
- 54 Scientific, Surgical and Photographic Instruments, etc.
- 55 Watches and Clocks
- 56 Electrical Machinery
- 57 Insulated Wires and Cables
- 58 Telegraph and Telephone Apparatus
- 59 Radio and Other Electronic Apparatus
- 60 Domestic Electrical Appliances
- 61 Miscellaneous Electrical Goods
- 62 Shipbuilding and Marine Engineering
- 63 Motor Vehicle Manufacturing
- 64 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 65 Aircraft Manufacturing and Repairing
- 66 Locomotives and Railway Track Equipment
- 67 Railway Carriages and Wagons and Trams
- 68 Perambulators, Hand-trucks, etc.
- 69 Tools and Implements

Part

- 70 Cutlery
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- 98 Overalls and Men's Shirts, Underwear, etc.
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- 100 Hats, Caps and Millinery
- 101 Corsets and Miscellaneous Dress Industries
- 102 Gloves
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- 104 Bricks, Fireclay and Refractory Goods
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- 135 Summary Volume

CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-

ferrous metals; paint; plastics materials;

cotton and rayon, nylon, etc. textiles; timber;

packing materials; replacement parts for plant

etc. (Information about purchases of other

materials is given in The Report on the Census

of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

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