



BOARD OF TRADE

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Report on the Census of Production 1963

63 Motor cycle, three-wheel vehicle and
pedal cycle manufacturing

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BOARD OF TRADE

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

Notes

These notes give the main information needed for interpreting the figures in the industry reports. (More detailed information about the Census is given in a separate booklet - 'Introductory Notes': Part 1 of the Report on the Census of Production for 1963.)

GENERAL INFORMATION

Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. Normally, an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than did its sales of the principal products of any other industry. However, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses.

The principle of classification by major output was also normally followed in compiling the analysis by sub-divisions of an industry.

In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT

Average number employed

Firms were required to state the number of persons on the payroll (i.e. whose National Insurance cards were held by them) on the average during the year of return, whether full-time or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

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 a fixed wage or salary; but persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

Employees

(i) Administrative, technical and clerical employees include managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.

(ii) 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, shops and 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 in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new constructional work (including office buildings, canteens and the like used in connection with the business covered by the return but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings, the value of work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

63 Motor cycle, three-wheel vehicle and pedal cycle manufacturing

This Report on the Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing Industry relates to establishments engaged wholly or mainly in manufacturing motor cycles, three-wheel vehicles (except tractors, battery-electric vehicles and works' trucks), bicycles, tricycles, sidecars, and parts and accessories for such vehicles including bodies, chassis, frames, engines, carburettors, axles, brakes and clutches (other than linings), gear boxes, wheels, windscreen wipers (not electrical) and other non-electrical parts and accessories except gaskets and jointings. Engine parts and accessories other than those specified, and electrical instruments, accessories and other electrical equipment for vehicles are excluded. Children's bicycles (with frames less than 15 inches) and tricycles (with wheels less than 14 inches) are also excluded and classed as principal products of the Toys, Games and Sports Equipment Industry (Part 122).

This industry corresponds to minimum list heading 382 in the Standard Industrial Classification (Consolidated edition, 1963).

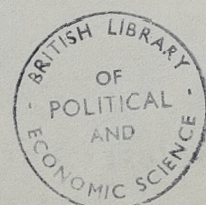
There were no establishments in this industry in Northern Ireland in 1954 and 1958, and no small establishments in 1963.

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure except that the following special treatment was given to sales of parts of engines: when sold in conjunction with complete motor cycle or three-wheel vehicle engines, parts were treated as principal products of this industry; otherwise they were treated as principal products of the General Mechanical Engineering Industry (Part 52).

The classification of returns to the sub-divisions of the industry followed the standard procedure, a change from 1958 when a return was classified to a particular sub-division only if more than a half of its total output comprised characteristic products of the sub-division, other returns being classified to the 'Remainder' sub-division.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).



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TABLE 1 Industry summary: United Kingdom

Estimates for all firms, 1958 and 1963 (a)

	Unit	1958	1963
Number of enterprises	No.	146	120
Number of establishments	"	175	134
Gross output	£'000	77,130	53,153
Net output	"	28,379	25,042
Net output per head	£	796	1,021
Sales and work done	£'000	65,708	53,365(b)
	"	9,144	909
Purchases	"	46,259	26,365
	"		752
Payments to other organisations	"	542	334
	"	716	565
Stocks and work in progress			
Total stocks and work in progress	"	+ 1,045	- 1,216
	"	16,385	13,830
Goods on hand for sale	"	+ 1,878	+ 71
	"	4,951	5,284
Work in progress	"	+ 400	- 1,191
	"	5,596	4,278
Materials, stores and fuel	"	- 1,233	- 95
	"	5,838	4,268
Average number employed	Th.	35.6	24.5
	"	29.0	19.4
	"	6.7	5.0
Wages and salaries	£'000	15,459	13,259
	"	4,137	3,784
Employers' contributions to National Insurance and private pension schemes, etc. (d)	"	..	1,093
Capital expenditure (e)			
Total	"	..	825
New building work	"	894	149
Land and existing buildings (f)	"	..	- 552
Plant and machinery (f)	"	1,243	1,148
Vehicles (f)	"	103	80

(a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 4 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 2 per cent.) A summary of the detailed returns received is given in Table 2.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(c) Administrative, technical and clerical employees.

(d) Including pensions and gratuities paid other than from pension funds.

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

(f) Acquisitions less disposals.

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963
Firms employing 25 or more persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)	
		Bicycles and tricycles and motor cycles complete 01, 02	
		1958	1963
Number of enterprises (c)	No.	19	14
Number of establishments	"	30	19
Gross output	£'000	45,136	37,981
Net output	"	17,175	17,760
Net output per head	£	813	1,015
Sales and work done	£'000	42,106	38,415(d)
Sales of characteristic products	"	1,600	437
Index of specialisation (f)	Per cent.	83	75
Purchases	£'000	26,161	19,074
Payments to other organisations	"	275	82
Stocks and work in progress	"	445	470
Goods on hand for sale	"	+ 1,154	+ 248
Work in progress	"	2,771	4,554
Materials, stores and fuel	"	+ 276	- 1,118
Average number employed	No.	3,930	3,162
Wages and salaries	£'000	- 1,079	- 192
Wages and salaries per head	£	3,414	2,802
Employers' contributions to National Insurance (h)	£'000	21,134	17,498
Employers' contributions to private pension schemes, etc. (i)	"	17,017	13,867
Capital expenditure (j)	"	4,117	3,624
New building work	"	9,552	9,713
Land and existing buildings	"	2,461	2,705
Plant and machinery	"	561	700
Vehicles	"	598	746
	"	..	452
	"	..	359
	"	681	23
	"	..	*
	"	..	588
	"	1,002	330
	"	233	64
	"	98	96
	"	29	53

Sub-divisions of the industry (b)				Total	
Three-wheel motor vehicles and chassis with engines therefor 03		Parts of motor cycles, three-wheel vehicles, bicycles and tricycles 04		1958	1963
1958	1963	1958	1963	1958	1963
4	5	51	28	71	46
6	9	64	31	100	59
1,642	5,065	28,431	7,722	75,209	50,768
478	2,211	10,019	3,947	27,673	23,918
710	1,350	774	918	796	1,021
1,557	4,865	20,409	7,689	64,072	50,970(d)
65	397	7,251	34	8,916	868
1,401	3,249	16,070	5,142	(e)	(e)
90	67	79	67	94	87
1,148	2,530	17,799	3,578	45,108	25,182
45	279	116	37	529	719
14	121	208	59	698	319
+ 15	- 182	+ 662	+ 2	+ 1,831	+ 68
52	205	2,005	288	4,828	5,047
+ 5	- 16	+ 109	- 4	+ 390	- 1,138
31	356	1,495	568	5,456	4,086
+ 43	+ 86	- 166	+ 16	- 1,202	- 91
207	670	2,072	604	5,693	4,076
673	1,638	12,944	4,301	34,751	23,437
588	1,286	10,650	3,456	28,255	18,609
85	348	2,294	821	6,496	4,793
315	963	5,217	2,039	15,085	12,714
54	339	1,522	584	4,037	3,629
536	749	490	590	534	683
637	975	663	711	621	757
..	49	..	118	..	618
..	14	..	57	..	430
23	65	168	54	872	143
..	*	..	*	..	97
..	*	..	*	..	625
16	73	509	816	1,527	1,219
1	-	82	59	315	123
6	9	57	43	162	148
3	3	29	15	61	72

For notes to this table - see page 63/7

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enterprises	Establishments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expenditure (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£'000	£'000	£	£'000	£'000
25-49	6	6	200	432	141	704	6	63
50-99	14	15	1,079	2,815	1,192	1,105	21	583
100-199	13	15	1,808	4,064	1,872	1,036	77	813
200-299	5	6	1,167	2,132	904	775	88	558
300-499	3	3	1,213	2,352	1,103	909	30	793
500 and over	5	14	17,970	38,973	18,705	1,041	565	10,399
Total	46	59	23,437	50,768	23,918	1,021	787	13,209

(ii) Employees, wages and salaries, and employers' contributions

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Employees		Wages and salaries		Employers' contributions		Wages and salaries per head	
	Operatives	Others (c)	Operatives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Operatives	Others (c)
	Number	Number	£'000	£'000	£'000	£'000	£	£
25-49	161	29	74	17	5	-	459	585
50-99	896	172	517	128	30	5	577	742
100-199	1,483	316	876	262	53	17	590	830
200-299	945	217	559	156	32	15	591	719
300-499	887	326	537	352	35	25	606	1,080
500 and over	14,237	3,733	10,152	2,714	464	367	713	727
Total	18,609	4,793	12,714	3,629	618	430	683	757

(a) Including working proprietors.

(b) Acquisitions less disposals.

(c) Administrative, technical and clerical employees.

(d) Including both flat rate and graduated contributions.

(e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £72,000.

TABLE 4 Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	6	2	8
18 and over	66	26	92
All ages	72	28	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

Footnotes to Table 2,

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 1 per cent. of the employment shown for 1963 and 8 per cent. for 1958.

	1958	1963
Number of firms	72	71
Average number employed:		
Working proprietors	} 722	{ 98
Other persons employed		

(b) The method of classifying returns to sub-divisions of the industry is explained in the introduction to this report; the characteristic products of each sub-division are identified in Table 5.

(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) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

(e) Characteristic products relate only to sub-divisions of the industry.

(f) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(g) Administrative, technical and clerical employees.

(h) Including both flat rate and graduated contributions.

(i) Including pensions and gratuities paid other than from pension funds.

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

TABLE 5 Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
02	Number	£'000	Number	£'000	Number	Number
Motor cycles and three-wheel vehicles and parts						
Complete motor cycles (including mopeds and motor scooters)			49,816	2,998	6	8
Mopeds (with engines not exceeding 50 c.c.) and scooters	133,969	15,586				
Other motor cycles						
With engines not exceeding 250 c.c.			20,904	2,425	8	9
Other			24,826	4,138	5	7
Total motor cycles complete	133,969	15,586	95,046	9,561	..	..
03						
Three-wheel vehicles and chassis with engines therefor (excluding three-wheel battery electric vehicles, works trucks, tractors, and mechanically propelled invalid carriages)	5,685	1,452(b)	9,732	2,663	*	*
03						
Invalid carriages, mechanically propelled	877	239(c)	2,915	786	*	*
04						
Parts and accessories of motor cycles and three-wheel vehicles (excluding tractors) sold separately						
Sidecar and sidecar chassis and bodies	11,797	520	4,655	217	*	*
Wheels and parts thereof (except tyres sold separately)	..	310	..	297	8	9
Gear boxes (new and reconditioned)	..	588	..	321	*	5
Carburettors (new and reconditioned)	..	..	108,476	157	6	7
Windscreens, windshields, etc.	..	2,249	..	274	5	6
Saddles and pillion seats	Thousands		Thousands			
171	266	61.7	96	5	8	
..	..	..	54			
Internal combustion engines	Number		Number			
Complete	39,002	1,363	10,821	474	5	6
..	..	..	..	137		
Parts						
Other parts and accessories, new and reconditioned (excluding electrical equipment and instruments)	..	3,974	..	3,896	25	31
Unclassified parts and accessories	..	443	..	704	13	13
Total parts and accessories of motor cycles and three-wheel vehicles (excluding tractors sold separately, electrical equipment and instruments)	..	9,713	..	6,663	..	..

TABLE 5 (continued)

Industry sub-division (a)	1958		1963			
	Quantity	Value	Quantity	Value	Enterprises	Entries
	Thousands	£'000	Thousands	£'000	Number	Number
01						
Cycles (not mechanically propelled) and parts						
Complete bicycles and tricycles (other than children's) (d)	2,214	20,229	2,163	19,567	12	12
04						
Parts and accessories of cycles, sold separately						
Frames and parts including tubing, forks, fork crowns, lugs and head fittings (e)	..	220	..	825	14	14
Wheels (with or without fitted tyres) and parts of wheels, not elsewhere specified (except tyres sold separately) (f)	..	1,501	..	522	9	9
Handlebars and bends, stems and parts thereof (including grips); brakes and brake controls and parts thereof (g)	..	1,836	..	283	7	7
Hubs (other than for variable gears, including coaster hubs)	..	..	..	165	*	*
Variable gears (including all forms of multi-speed gears)	..	1,604	..	1,451	*	*
Free-wheel mechanisms	3,201	482				
Mudguards	1,813	232	1,472	358	6	6
Inflators	3,167	388	1,095	120	5	5
Parts and accessories, not elsewhere specified	..	6,785	..	2,062	25	25
Other products	..	2,178	..	745	17	17
Waste products	Th. tons		Th. tons			
Scrap iron and steel	21.5	189	24.7	199	30	33
Other waste products including scrap metal other than iron and steel	..	273	..	108	17	19
Work done on commission, sub-contract work, etc. other than repair work		1,034		1,274	13	13
Total		64,136(h)		47,417	..	..
Sales in other industries (see Table 6)		4,706		3,023	..	..
Principal products of this industry sold by establishments in the industry		59,431(h)		44,394	46	51(i)

For notes to this table - see page 63/10

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1958		1963			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
		£'000		£'000	Number	
Complete motor cycles (including mopeds and motor scooters), three-wheel vehicles and chassis with engines (excluding three-wheel battery electric vehicles, works trucks, tractors and mechanically propelled invalid carriages) and complete bicycles and tricycles (other than children's) not mechanically propelled	..	2,618	..	1,215	6	59,62,84,122
Parts and accessories of bicycles and tricycles (other than children's)			..	329	11	44,49,53,62
Parts and accessories of motor cycles and three-wheel vehicles (excluding tractors)	..	2,088	..	1,479	21	44,47,60,62
Total		4,706		3,023	..	

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

Footnotes to Table 5.

- (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) Three-wheel battery electric vehicles, works trucks and mechanically propelled invalid carriages were not specifically excluded in 1958.
- (c) So far as recorded separately in 1958.
- (d) Children's bicycles are those with frames less than 15 inches and tricycles with wheels less than 14 inches and these are included in the report on the Toys, Games and Sports Equipment Industry (Part 122).
- (e) Described as 'Frames and frame tubes' in 1958.
- (f) 'With or without fitted tyres' not included in 1958 description.
- (g) Described as 'Handlebars with or without brake fittings and head and bracket fittings' in 1958.
- (h) Revised figure. Repair work, included in this table in the 1958 report on this industry is now included in Table 7.
- (i) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	1958	1963
	Value	Value
	£'000	£'000
Motor vehicles, including tractors and motorised caravans complete, and parts and accessories of motor vehicles	1,187(a)	1,122
Non-electrical machinery, parts and accessories	835	508
Other mechanical engineering products		1,367
Miscellaneous metal manufactures	205	370
Toys and sports equipment and parts	142	1,477
Miscellaneous electrical goods	1,692	115
Invalid carriages (not mechanically propelled) and perambulators, complete and parts		177
Other products	1,246	
Services rendered to other organisations (b)		
Work done		
Repair work	580	194
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	8,794	841
Canteen takings	122	27
Total	13,558(c)(d)	7,444

- (a) Including fork lift and platform trucks, internal combustion engines new and reconditioned, trailers and caravans complete and parts, but excluding motorised caravans, for 1958.
- (b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.
- (c) Revised figure. Repair work was included in the principal products table of the report on this industry for 1958.
- (d) Excluding amounts charged for services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963

Firms employing 25 or more persons: United Kingdom

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing	Th.tons	£'000	Th.tons	£'000
Iron castings	8.7	968	1.3 ..	224 304
Steel				
Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares (a)	48.0 ..	3,737 418	21.2 ..	1,502 428
Sheets under 3 mm. thick (including electrical sheets)	20.6	1,229	7.2 ..	423 231
Tinplate, terneplate and blackplate	3.0 ..	179 35		
Forgings	2.0	216	3.2 ..	519 153
Castings	0.2 ..	92 36	..	55
Iron and steel not elsewhere specified except finished parts, wire and scrap				
Wrought tubes and fittings for tubes	6.1 ..	476 150	9.2	1,282
Other	27.3	2,157	21.4	1,749
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap				
Aluminium and aluminium alloys	3.3 ..	938 131	1.3 ..	532 424
Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys) (b)	2.2 ..	614 201	1.2	324
Copper (excluding blister) (c)	0.1	52	..	9
Wire and wire manufactures (excluding insulated wires and cables bought as such)				
Single wire of steel	..	485	..	196
Other wire and wire manufactures	..	132	..	153
Bolts, rivets, nuts and washers, screws, nails, tacks, etc.	..	649	..	431
	Th.gal.		Th.gal.	
			195	244
Paint and varnish (including lacquers and stains)	321 ..	408 ..	Th.cwt. 4.9 ..	8 52
	Th.sq.yds.		Th.sq.yds.	
Woven piece goods (other than narrow fabrics) wholly or mainly of cotton	27.3 ..	11 8	25.0	6
Rubber tyres and other rubber products, other than replacement parts for your own machinery, plant and vehicles				
New covers				
For motor cycles, scooters and three-wheel vehicles (d)	..	574	..	352
For pedal cycles (including mopeds) (e)	..	1,431	..	1,031

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
Materials for processing (continued)		£'000		£'000
Rubber tyres and other rubber products, other than replacement parts for your own machinery, plant and vehicles (continued)				
Inner tubes				
For motor cycles, scooters and three-wheel vehicles (d)	..	63	..	699
For pedal cycles (including mopeds) (e)	..	569	..	442
Other rubber manufactures	..	348	..	442
Leathercloth and decorative thermoplastic sheet (f)	..	274	..	227
Vehicle components and accessories for incorporation in the finished products of the industry				
Complete engines for motor cycles and three-wheel vehicles and auxiliary engines for pedal cycles, including parts thereof (other than electrical) not elsewhere specified	Number		Number	
Complete engines	23,075 ..	497 87	42,866 ..	924 222
Parts of engines (other than electrical) not elsewhere specified	..	(g)	..	272
Precision chain (e.g. transmission and timing)	..		..	430
Ball and roller bearings and parts	..	448	..	290
Springs other than laminated (h)	..	178	..	171
Instruments and parts (including speedometers and clocks) other than electrical	..	326	..	226
Plastic goods moulded and fabricated	..	74	..	274
Electrical equipment and electrically operated instruments and equipment, new or reconditioned				
Electric motors, separately purchased	..	28	..	151
Dynamos and magnetos, separately purchased	..	321	..	928
Other electrical equipment	..	1,531	..	171
Insulated wires and cables	..	(g)	..	2,822
Other vehicle components and accessories	..	9,411	..	493
Purchased vehicles complete and parts, for reconditioning	..	(g)	..	91
			Th.gal.	
			385	91
Lubricating oils and greases (including cutting oils and emulsions)	..	..	Th.cwt. 1.0 ..	4 10
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	..	1,209	..	273
All other materials for processing	..	8,068	..	3,590
Packaging materials				
Paper and board				
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard	..	302	..	339

Continued on next page

TABLE 10 (continued)

	1954		1963	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Materials for processing (continued)				
Paper and board (continued)				
Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal), moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks)	..	(g)	..	69
Timber				
Containers wholly or mainly of wood, including plywood boxes and drums, baskets and wickerwork crates	..	663	..	54
Timber (sawn or planed) for manufacture into packing cases, etc.			Th. cu. ft.	
			270	138
			..	44
Other wood products for packaging, including wood wool	..	(g)	..	6
Jute and hessian piece goods, sacks and bags			..	2
All other packaging materials	..	277	..	38
Fuel and electricity (i)	Th. tons		Th. tons	
Coal	64.2	222	49.7	220
Coke (including screenings) and manufactured fuel	5.9	33	2.4	21
	..	6		
	Th. gal.		Th. gal.	
Derv fuel and motor spirit for use in road vehicles	744	146	264	54
			..	11
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	2,002	92	796	36
			..	14
	Th. therms		Th. therms	
Gas	7,358	372	7,595	353
	..	53		
	Th. kWh		Th. kWh	
Electricity	100,739	490	62,988	390
	..	58	..	49
Total cost of materials and fuel		41,473		25,182
Goods purchased for merchanting		..		655
Canteen purchases		..		63
Total cost of purchases		..		25,900

(a) Including hollows and shells in 1954. Pillars rolled (not fabricated) were not included.

(b) 'Wire' was not specifically excluded in 1954.

(c) 'Blister' was not specifically excluded in 1954.

(d) Described as 'Other than for pedal cycles' in 1954.

(e) 'Mopeds' were not specifically included in 1954.

(f) Decorative thermoplastic sheet was not included in 1954.

(g) Not recorded separately for 1954.

(h) 'Laminated' springs were not excluded in 1954.

(i) Owing to the risk of disclosure of information relating to individual firms the quantity of electricity generated in 1954 and 1963 cannot be given.

TABLE 11 Transport costs and employment of larger firms, 1963

Firms employing 25 or more persons: United Kingdom

	Unit	1963
Average number employed mainly on transport	No.	190
Transport costs		
Wages and salaries	£'000	172
Derv fuel and motor spirit	"	65
Payments to other organisations for transport	"	540
Costs of operating road goods vehicles		
Insurance	"	13
Vehicle licences	"	11
Depreciation	"	68
Payments to other organisations for repairs and maintenance	"	22
Total	"	891

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

	Amounts payable
Repairs and maintenance to	£'000
Buildings	106
Road goods vehicles	22
Plant, machinery, and other capital equipment	149
Insurance, licensing and depreciation of road goods vehicles (b)	93
Rates, excluding water rates	336
Hire of plant and machinery	21
Postage, telephone, telegrams and cables	147
Total	875

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963

Firms employing 25 or more persons:
United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
1963	Per cent.	1963 (contd.)	Per cent.
April (a)	0.5	November	0.0
May	0.0	December	10.1
June	0.3		
July	68.9	1964	
August	8.2	January	1.7
September	4.1	February	0.0
October	3.3	March	2.9
		Total	100

(a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

Notes - continued from page ii

Capital Expenditure (continued)

(ii) Land and existing buildings.

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded in this report for both 1958 and 1963.

Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

Enterprise

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

Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

Establishment

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 firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include 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 are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, 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 has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

Net output per person employed

The figures for net output per person employed are derived by dividing the net output by the average number of persons employed (full-time and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packing materials, including the full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general purchases of goods for merchandising or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is 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 are included at their c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of goods made by the business covered by the return, goods 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. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

The value shown for sales is the net selling 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.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other

services rendered to other organisations. It includes amounts credited for similar services rendered to other departments of the same firm not covered by the return.

Small Firms

These are firms in which fewer than twenty-five persons were employed on the average during the year.

Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchandising or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, 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, i.e. 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; in Northern Ireland this exclusion extends also to payments to directors of limited companies. 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. and employers' contributions to National Insurance and pension schemes is excluded.

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.

Symbols used

The following symbols are used throughout the report:

- .. Not available
- Nil or negligible (less than half the final digit shown)
- * Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

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.

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