



Business Monitor

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DEPARTMENT OF TRADE AND INDUSTRY BUSINESS STATISTICS OFFICE

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Report on the Census of Production 1970

C97 Miscellaneous metal goods

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Business Monitor

DEPARTMENT OF TRADE AND INDUSTRY BUSINESS STATISTICS OFFICE

Report on the Census of Production 1970

C97 Miscellaneous metal goods

Presented by the Department of Trade and Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 sec 7)

Coal mining
Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction

Petroleum and natural gas Salt and miscellaneous non-metalliferous

Cocoa, chocolate and sugar confectionery

C1 Introductory Notes

Sugar

Margarine

Soft drinks

and organic)

C33 Soap and detergents

Fertilizers

Printing ink

Iron castings, etc.

Office machinery

Mining machinery

making machinery

type refrigerators)

conditioning equipment

Ordnance and small arms

Insulated wires and cables

reproducing equipment

Electronic computers

Watches and clocks

Electrical machinery

and systems

Polishes

Toilet preparations

and synthetic rubber

Dyestuffs and pigments

Surgical bandages, etc.

Miscellaneous base metals

Metal-working machine tools

Pumps, valves and compressors

Mechanical handling equipment

Space heating, ventilating and air-

C63 Miscellaneous (non-electrical) machinery C64 Industrial (including process) plant and

General mechanical engineering

Surgical instruments and appliances

Scientific and industrial instruments

Radio and electronic components

Broadcast receiving and sound

Telegraph and telephone apparatus and

Radio, radar and electronic capital goods

Food and drink processing machinery

Industrial engines
Textile machinery and accessories

Tobacco

C22 C23

C34

C36

C37

C38

C39

C40

mining and quarrying

C6 Metalliferous mining and quarrying

C10 Bacon curing, meat and fish products
C11 Milk and milk products

Fruit and vegetable products Animal and poultry foods

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

C29 General chemicals (other than inorganic

Synthetic resins and plastics materials

Formulated adhesives, gelatine, etc.

Formulated pesticides and disinfectants

Explosives, fireworks and matches

Photographic chemical materials Iron and steel (general)

Aluminium and aluminium alloys

Copper, brass and other copper alloys

Agricultural machinery (except tractors)

Construction and earth moving equipment

Printing, bookbinding and paper goods

Refrigerating machinery (except domestic

Photographic and document copying equipment

Pharmaceutical chemicals and preparations

Starch and miscellaneous foods

British wines, cider and perry

Lubricating oils and greases General chemicals (inorganic)

General chemicals (organic)

Brewing and malting

Mineral oil refining

Grain milling
Bread and flour confectionery

C78 Electric appliances primarily for domestic use

Miscellaneous electrical goods

Shipbuilding and marine engineering Wheeled tractor manufacturing Motor vehicle manufacturing

Motor cycle, tricycle and pedal cycle manufacturing

Aerospace equipment manufacturing

and repairing Locomotives and railway track equipment C86

Railway carriages, wagons and trams Engineers' small tools and gauges Hand tools and implements

C89 Cutlery, spoons, forks and plated tableware, etc.

C90 Bolts, nuts, screws, rivets, etc. Wire and wire manufactures

C92 Cans and metal boxes C93 Jewellery and precious metals

Metal furniture

C95 Drop forgings, etc. Metal hollow-ware

C96 C97 Miscellaneous metal goods Production of man-made fibres

Spinning and doubling on the cotton

and flax systems
Weaving of cotton, linen and man-made fibres C100 Woollen and worsted

C101 C102 Jute

Rope, twine and net

Hosiery and other knitted goods C105 Lace

Carpets

Narrow fabrics

Made-up household textiles and handkerchiefs Canvas goods and sacks, etc. Textile finishing C108

Asbestos

Miscellaneous textiles

Leather (tanning and dressing) and

fellmongery C114 Leather goods

Fur

Waterproof outerwear

Men's, and boys' tailored outerwear Women's and girls' tailored outerwear

Overalls and men's shirts, underwear, etc.

Dresses, lingerie, infants wear, etc. Hats, caps and millinery

C122 C123 Corsets and miscellaneous dress industries

Gloves

Footwear

Bricks, fireclay and refractory goods

C126 C127 Pottery Glass

Cement

Abrasives

Miscellaneous building materials and mineral

products Timber

Furniture and upholstery Bedding and soft furnishing

Shop and office fittings Wooden containers and baskets

Miscellaneous wood and cork manufacturers

Paper and board C138

Cardboard boxes, cartons and fibre-board packing cases

Packaging products of paper and associated materials (other than board)

C140 Manufactured stationery

Wallcovering C141

Miscellaneous manufactures of paper and board

Printing, publishing of newspapers and

periodicals General printing, publishing, etc.

Rubber

C145 Linoleum, plastics floor covering,

leathercloth, etc.

Brushes and brooms

C147

Toys, games and children's carriages Sports equipment

Miscellaneous stationers' goods

C149 Plastics products

C150 Musical instruments

Miscellaneous manufacturing industries

C151 Gas

Electricity

Water suppl

Summary tables

C97 Miscellaneous metal goods

This report on the Miscellaneous Metal Goods Industry relates to establishments engaged wholly or mainly in manufacturing metal casements, window frames, door frames and skylights, curtain walling, etc.; safes and strong rooms, cash and deed boxes and all types of locks and keys except time locks and locks for vehicles; spiral and flat (including laminated) springs for all purposes but excluding vehicle suspension springs and vehicle engine valve springs; metal sewing, knitting, hosiery and gramophone needles; toilet, safety, hair and hat pins; crochet hooks and fish hooks, and metal smallwares of all kinds for the clothing, fancy leather goods, harness and saddlery, etc. trades, such as bag clasps and frames, buckles, hooks and eyes, snap fasteners, zip fasteners, domestic chain, etc.; domestic gas appliances for cooking, heating, washing, etc. other than of cast iron excluding gas central heating systems, gas-operated refrigerators and gas meters; metal closures for bottles, jars and similar containers including crown corks and heavy grade closures for drums, etc. but excluding metal parts and components of cans and metal boxes and of containers of other materials; anchors, grapnels and drags, chains (including non-precision chains for vehicles) and accessories such as shackles, couplings and crane hooks; hand trucks and wheelbarrows, primarily of metal, including parts such as wheels and axles. The activities of the industry include cold pressing, stamping and piercing base metals in the production of metal goods not reported elsewhere for the motor vehicle, mechanical and electrical engineering, furniture, construction, etc. trades; grinding, polishing, enamelling, gilding, plating, lacquering, galvanising and other metal finishing processes; ship breaking; and general sheet metal working in base metals and welding. The production of engineers' non-ferrous stamping and pressings is excluded.

The industry corresponds to minimum list heading 399(2), (3), (4), (8), (9), (10), (11) and (12) in the Standard Industrial Classification (revised 1968) which was used for the first time as a basis of classification in the 1968 census, when it was reported as part 97. The definition of the industry is the same for the 1968 and 1970 The figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (revised 1968).

> In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

Table No	Title	Page
	Section I - Estimates for all United Kingdom establishments in the industry	antens blass
1	Net output, 1963, 1968 and 1970 - Establishments classified to the industry	C97.3
2	Capital expenditure and stocks, 1963, 1968 and 1970 - Establishments classified to the industry	C97.4
3	Analysis of establishments by size, 1970 - Establishments classified to the industry	C97.5
4	Percentage analysis of employees by age and sex, 1970 - Establishments classified to the industry	C97.6
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TABLE 2

Capital expenditure and stocks, 1963, 1968 and 1970

All United Kingdom establishments classified to the industry (a)

		1963	1968	1970 (b)
Capital expenditure		£'000	£,000	£'000
New building work		4,748	6,205	7,277
Land and existing buildings		iamob	same bas beesle	rs aboom to mail
Acquisitions		2,195	2,091	4,008
Disposals		1,529	4,882	3,119
Plant and machinery				agriffit cas to
Acquisitions	and the state of t	12,407	20,290	27,893
Disposals		760	1,458	1,819
Vehicles		RENTERA	al Ster tree	odi palusbiqui
Acquisitions		2,999	4,550	7,207
Disposals		1,053	1,662	2,739
Total net capital expenditure (c)	0.	19,007	25,135	38,708
Stocks and work in progress at end of year		- 33563 45		ench dros sol
Materials, stores and fuel		45,106	63,798	85,414
Work in progress		28,308	44,420	55,121
Goods on hand for sale		23,466	36,665	47,160
Total stocks		96,879	144,883	187,695

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included for 1970.

(c) Acquisitions <u>less</u> disposals.

TABLE 3
Analysis of establishment by size, 1970
All United Kingdom establishments classified to the industry (a)

C97.4

| at a

	e de les de les de gaster			Employees	ses	Wages and salaries	salaries	Wages and salaries per head	alaries	Total	000				Total stocks and work in
Size group (b)	Enterprises (c)(d)	Estab- lishments (d)		Total employment Operatives (b)	Others (e)	Operatives	Others (e)	Operatives	Others (e)	work done		+	per head	(net)	progress at end of year
	Number	Number	Number	Number	Number	3,000	£,000	બ	બ	£,000	3,3 000,3	£,000	ч	£,000	£,000
1-10	3,663	3,663	20,737							is d					
11-24	2,028	2,028	35,557	96 044	20 501	202 72	092 00	1 017	1 449	443 379	446 690 999 915		9 053	16 071	69 118
25-49	200	515	18,699	440,000	100,02	000,10	60,000	1,011	7,117	210,011	77				
50-99	463	475	33,257							I .		8	34,83		
100-199	252	266	34,974	27,737	7,101	27,152	9,816	626	1,382	144,492	146,969 67	67,237 1	1,922	5,263	24,499
200-299	71	74	19,162	15,106	4,035	14,854	5,449	983	1,350	76,764	77,298 37	37,118 1	1,937	3,037	14,951
300-399	33	. 34	12,319	9,314	2,991	9,229	3,901	991	1,304	45,891	47,176 24	24,332 1	1,975	1,544	11,900
400-499	33	33	15,228	11,217	4,011	11,991	5,315	1,069	1,325	61,645	62,014 31	31,950 2	2,098	1,908	13,053
500-749	28	33	19,725	14,340	5,383	14,094	7,527	983	1,398	85,308	86,040 36	36,648 1	1,858	4,883	18,596
750,999	19	20	19,755	14,588	5,165	14,855	6,926	1,018	1,341	80,913	81,752 37	37,446 1	1,895	2,669	19,360
1,000-1,499	13	13	16,168	12,051	4,117	12,010	7,158	266	1,739	68,624	68,071 34	34,745 2	2,149	1,285	12,898
1,500 and	∞	00	15,224	11,518	3,706	11,529	4,799	1,001	1,295	51,768	51,905 26,828		1,762	2,048	10,320
Total	6,766	7,162	260,805	201,915	57,010	203,250	80,460	1,007	1,411	1,058,784	1,058,784 1,067,845 518,519		1,988	38,708	187,695

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

(b) Average number employed during the year (including working proprietors) by the establishment.

(c) The stablishment of the firming for the point around overeds the total for the

(c) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(d) The increased number of enterprises and establishments shown for 1970 mainly reflects the improved coverage of smaller firms in the Business

Statistics Office's production register; for definition of establishments see notes on page (iii).

(e) Administrative, technical and clerical employees.

(f) Including sales of goods merchanted or factored and canteen takings.
Also includes services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

Acquisitions less disposals.

(g)

TABLE 3

Analysis of establishment by size, 1970

All United Kingdom establishments classified to the industry (a)

				Employ	ees	Wages and	salaries	Wages and s		Total sales and	Gross	Net	Net	Capital	Total stocks and work in
Size group (b)	Enterprises (c)(d)	Estab- lishments (d)	Total employment (b)	Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)	work done	output	output	output per head	expenditure (net) (g)	progress at end of year
	Number	Number	Number	Number	Number	£,000	£,000	£	£	£,000	£,000	£,000	£	£,000	£,000
1-10	3,663	3,663	20,737												
11-24	2,028	2,028	35,557	90,044	00 501	07 500	20 560	1.017	1,442	443,379	146 620	222,215	2,053	16,071	62,118
25-49	500	515	18,699	86,044	20,501	87,536	29,569	1,017	1,442	445,575	440,020	222,210	2,000	10,071	02,110
50-99	463	475	33,257												
100-199	252	266	34,974	27,737	7,101	27,152	9,816	979	1,382	144,492	146,969	67,237	1,922	5,263	24,499
200-299	71	74	19,162	15,106	4,035	14,854	5,449	983	1,350	76,764	77,298	37,118	1,937	3,037	14,951
300-399	33	. 34	12,319	9,314	2,991	9,229	3,901	991	1,304	45,891	47,176	24,332	1,975	1,544	11,900
400-499	33	33	15,228	11,217	4,011	11,991	5,315	1,069	1,325	61,645	62,014	31,950	2,098	1,908	13,053
500-749	28	33	19,725	14,340	5,383	14,094	7,527	983	1,398	85,308	86,040	36,648	1,858	4,883	18,596
750,999	19	20	19,755	14,588	5,165	14,855	6,926	1,018	1,341	80,913	81,752	37,446	1,895	2,669	19,360
1,000-1,499	13	13	16,168	12,051	4,117	12,010	7,158	997	1,739	68,624	68,071	34,745	2,149	1,285	12,898
1,500 and over	8	8	15,224	11,518	3,706	11,529	4,799	1,001	1,295	51,768	51,905	26,828	1,762	2,048	10,320
Total	6,766	7,162	260,805	201,915	57,010	203,250	80,460	1,007	1,411	1,058,784	1,067,845	518,519	1,988	38,708	187,695

- (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.
- (b) Average number employed during the year (including working proprietors) by the establishment.
- (c) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.
- (d) The increased number of enterprises and establishments shown for 1970 mainly reflects the improved coverage of smaller firms in the Business

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- (e) Administrative, technical and clerical employees.
- (f) Including sales of goods merchanted or factored and canteen takings. Also includes services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (g) Acquisitions less disposals.

TABLE 5

Percentage analysis of employees, by age and sex, 1970 (a)

All United Kingdom establishments classified to the industry

Ages	Males	Females	All employees
	per cent	per cent	per cent
Under 18	4	2	6
18 and over	66	28	94
All ages	70	30	100.0

Source: Department of Employment

Regional distribution of employment, net capital expenditure and net output, 1970 All United Kingdom establishments classified to the industry

Area		e number yed (a)		eapital ture (b)	establishme	and employment in nts with more than	80 per cent of
	PARLE		The state of the s		their empre	syment in the region	on (e)
	681,888				Estimated net output	Average number employed as a percentage of total average number employed	Net output as percentage of total of the industry in the United Kingdom
140,52	SAIZ. 982	SOLUE.				in the industry in the region	Megayane njigaki servini mosensa
	Thousands	per cent of United	£,000	per cent of United	£,000	cent down tope and	an aradi
	14X0, 5	Kingdom		Kingdom	= TEX BURNEY CO	a about later was	est, ou equado
Standard Regions of England	182,4	618.1			40532010	of dame carry sect	Sections amounts
North	6.1	2.3	1,324	3.4	6,934	52.5	1.3
Yorkshire and Humberside	17.7	6.8	2,659	6.9	27,089	67.9	5.2
East Midlands	10.8	4.1	809	2.1	12,191	67.1	2.4
East Anglia	2.9	1.1	286	0.7	3,380	56.1	0.7
South East	73.6	28.2	8,756	22.6	84,752	56.3	16.4
South West	8.0	3.1	1,622	4.2	11,619	62.4	2.2
West Midlands	91.7	35.2	12,344	31.9	120,930	71.9	23.3
North West	27.3	10.5	4,246	11.0	28,736	55.1	5.5
England	238.1	91.3	32,046	82.8	295,631	63.7	57.0
Wales	9.8	3.8	4,750	12.3	13,488	63.0	2.6
Scotland ·	11.7	4.5	*	*	14,033	60.9	2.7
Great Britain	259.6	99.6	*	*	323,152	63.5	62.3
Northern Ireland	1.2	0.4	*	*	831	46.8	0.2
Unallocated (d)	98.1 - 9	20-1		-	194,536	Brown ton	37.5
United Kingdom	260.8	100.0	38,708	100.0	518,519		100.0

- (a) Including working proprietors.
- (b) New building work plus acquisitions <u>less</u> disposals of land and existing buildings, plant and machinery and vehicles: including capital expenditure at establishments not yet in production.
- (c) Where a census return covered addresses in two or more regions an estimate was made of the net output attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output at each address covered by a return was proportionate to employment at the address. The establishment's residual net output was included in unallocated net output.
- (d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

⁽a) The percentages relate to the numbers employed (excluding working proprietors) in the 'Metal industries not elsewhere specified', minimum list heading 399 at mid-June, 1970. In the 1970 census the employment of the Miscellaneous metal goods industry represented 81 per cent of the employment of minimum list heading 399 as a whole.

TABLE 7

	Unit	1963	1968	1970
Enterprises	Number	1,077	1,013	936
Establishments (a)	п	1,430	1,388	1,110
Sales of goods produced and work done	£'000	100,000	F0F F 00	647,690
Services rendered to other organisations (b)	11	406,398	585,700	4,159
Goods merchanted or factored	п			32,046
Canteen takings	11	22,258	29,245	1,191
Total sales and work done	п	428,656	614,945	685,086
Change during the year, goods on hand for sale	II .	+ 377	+ 3,004	+ 3,733
Change during the year, work in progress	II	+ 1,812	+ 4,421	+ 2,378
Gross output	11	430,845	622,370	691,197
Cost of purchases	11	195,311	289,964	340,467
Change during the year, stocks of materials, stores and fuel	n 908	+ 1,256	+ 4,377	+ 3,722
Payments to other organisations	1 100		5.8	Haat Angila
for work done on materials given out	II	7,862	11,836	12,281
for transport by road	II PAR	1 0.81	5,741	7,201
for transport by rail, water, air and Post Office parcel services (c)	11 33%	5,385	1,601	1,948
	.28 640.	1	1.88	liens) și
Total costs	83 n 988	207,302	304,765	358,174
Net output	11	223,544	317,604	333,023
Total employment (including working proprietors) (d)	Thousands	188.6	188.3	169.3
Net output per head	£	1,185	1,686	1,967

(a) See definition of establishments in notes on page (iii).

(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

(c) For 1963 and 1968, payments for postal services are excluded.

(d) Average number of persons employed during the year.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 25 or more persons, 1970

	Accounting year ended	Percentage of total returns received	Percentage of total numbers employed
	ta arma pergala berman	per cent	per cent
1970	April (a)	3.2	2.3
	May	2.2	1.2
	June	6.2	3.8
	July	4.5	4.3
	August	2.4	1.9
	September	6.2	5.9
	October	4.3	3.2
	November	1.9	1.3
	December	39.6	44.1
1971	January	4.8	7.2
	February	2.7	2.0
	March (b)	22.0	22.8
	Cash Tananas added some certain	100.0	100.0

(a) From 6th April.

(b) Including returns made for twelve-month period ending 1st to 5th April 1971.

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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 C1 of the Report on the Census of Production for 1970).

GENERAL INFORMATION

Changes compared with 1968

The questions asked in the 1970 census were similar to those in the 1968 census with certain exceptions. In particular the 1970 census returns did not ask for details of:—

- (i) purchases or sales by commodities
- (ii) payments of rates
- (iii) payments for repairs and maintenance
- (iv) costs of operating road goods vehicles.

The amounts payable to other organisations for transport of goods however, did include the cost of the Post Office parcel services.

Other changes concern the treatment of firms employing less than 25 persons and the rules used for classifying establishments to industry. Any such changes are explained in the following paragraphs, or in the introductions to the industry reports, or by footnotes to the tables.

Industrial classification

Establishments were classified to industries on the basis of major activity in conformity with the third edition of the Standard Industrial Classification (Revised 1968). 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 in its sales of the principal products of any other industry. Classification of an establishment in this census was based on the establishment's return to the Census of Production, 1968.

Establishments added to the register subsequent to the 1968 census were classified on the basis of the description of the business given by the respondent.

Coverage

Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but in industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments whose employment was not known to the Business Statistics Office at the time of despatch; if their employment was below the exemption limit for their industry establishments were asked to supply figures only of total employment and total sales.

TERMS USED IN THE CENSUS REPORT

Average number employed

Establishments 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) all other employees (operatives). Averages could be calculated from figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Outworkers (i.e. persons employed by establishments who worked in their own homes etc. on materials supplied by the establishments) are excluded.

The figures include persons engaged on 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 such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include managing and other directors in receipt of a definite wage, salary or commission, 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.

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 (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers, and cleaners. Operators engaged in outside work of erecting, fitting etc. are also included, but outworkers are excluded.

Capital expenditure

(a) New building work

This represents the cost incurred during the year of new building and other 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 works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include any legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost of 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.

(c) 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 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, amortization 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 from the figures for both 1963 and 1968 but is included in the figures for 1970.

Enterprise

The term enterprise is used in this report to mean one or more establishments under common ownership or control. An enterprise normally consists of a single establishment, more than one establishment owned by the same firm, or a number of establishments owned by a parent company and its subsidiary companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exchange Year Book supplemented by information from company reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is believed sufficient to provide a worthwhile basis for analysis.

Establishment

The definition of the establishment differed between the Censuses for 1963, 1968 and 1970. The definitions used were as follows:—

1963: the establishment was normally the premises under the same ownership or management at a particular address.

1968: the establishment was defined, in accordance with Standard Industrial Classification (Revised 1968), as being the smallest unit which could provide the information normally required for an economic census, for example, employment, expenses, turnover and capital formation. Sometimes activities which are conducted as a single business are carried on at a number of addresses. In 1968 where the activities of such a business were closely integrated and the addresses, termed local units, were in close proximity the establishment was defined to cover the combined activities and a single return was accepted. When the activities were closely integrated but the addresses were not in close proximity a combined return was accepted but the individual addresses were treated—in the count of establishments in an industry, for instance—as separate establishments.

1970: the practice of treating as multi-unit establishments those businesses with closely integrated activities at a number of addresses in close proximity was extended to all those businesses where the local units were at more than one geographical location and detailed census information was not available for each unit. Separate figures were obtained, however, of employment and capital expenditure at each unit. The effect of this change is to reduce somewhat the number of establishments as compared with 1968.

Gross output

Gross output measures the total value of production (including work done) by establishments during the year. It is calculated as follows:—

Value of sales and work done

Plus/Less: Increase/decrease in value of stocks of goods on hand for sale

Plus/Less: Increase/decrease in value of work in progress

= Gross output.

Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It is calculated as follows:—

Gross output

Less: Purchases adjusted for change in value of stocks of fuel and raw materials

Less: Payments for work given to other establishments

Less: Payments for transport

Less: Net amount of any duties, subsidies, allowances and levies payable

= Net output.

Net output per person employed

The figures of 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.

Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to establishment's own buildings, plants and vehicles when carried out by their own work people included in the returns; 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 merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

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 an establishment's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the 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 delivery cost if invoiced "carriage paid home". Materials and fuel transferred from another department of the establishment not covered by the same return are included at the estimated selling value recorded by the other department.

Sale

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other establishments 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 establishment's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanted or factored) and canteen takings are included.

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 excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value.

Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were treated as sales by the producing establishment 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.

To the extent that sales of 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. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates of the figures for a number of industries contain significantly greater amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

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 establishments of the same enterprise not covered by the return.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (Revised 1968). It is published by H M Stationery Office together with a separate index in the form of an alphabetical list of industries.

Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during, the year are 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 payment to other establishments, and to any separate transport organisation of the same establishment 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, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and salarie

These are 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. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other establishments (whether part of the same enterprise or not) on materials supplied to them. 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 last significant figure)
- * figures cannot be shown owing to risk of disclosing information about individual enterprises.

ROUNDING OF FIGURE

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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