



Business Monitor

DEPARTMENT OF TRADE AND INDUSTRY BUSINESS STATISTICS OFFICE

Report on the Census of Production 1970

C75 Broadcast receiving and sound reproducing equipment

Publication of the Government Statistical Service

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Special Note for Purchasers

Commencing with the 1970 Census, the Census of Production reports will in future be published annually as part of the Business Monitor series. They will continue to be available on standing order from HMSO, but they are not included in the global subscription arrangements for the Business Monitor series.

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C	Introductory Notes	C78	Electric appliances primarily for
C	2 Coal mining	C10	domestic use
C	3 Stone and slate quarrying and mining		Miscellaneous electrical goods
	Chalk, clay, sand and gravel extraction	C80	Shipbuilding and marine engineering
C:	Petroleum and natural gas	C81	Wheeled tractor manufacturing Motor vehicle manufacturing
	Salt and miscellaneous non-metalliferous mining and quarrying	C83	Motor cycle, tricycle and pedal cycle
C	Metalliferous mining and quarrying	202	manufacturing
	Grain milling	C84	Aerospace equipment manufacturing
C	Bread and flour confectionery	COS	and repairing
	Biscuits		Locomotives and railway track equipment Railway carriages, wagons and trams
	Bacon curing, meat and fish products Milk and milk products	C87	Engineers' small tools and gauges
	Sugar	C88	Engineers' small tools and gauges Hand tools and implements
C13	Cocoa, chocolate and sugar confectionery	C89	Cutlery, spoons, forks and plated tableware, etc.
C14	Fruit and vegetable products	C90	Bolts, nuts, screws, rivets, etc.
	Animal and poultry foods	C91	Wire and wire manufactures
	Vegetable and animal oils and fats	C92	Cans and metal boxes Jewellery and precious metals
	Margarine Starch and miscellaneous foods	C94	Metal furniture
	Brewing and malting	C95	Drop forgings, etc.
	Soft drinks	C96	Metal hollow-ware
	Spirit distilling and compounding	C97	Miscellaneous metal goods Production of man-made fibres
	British wines, cider and perry	C98	Production of man-made fibres
	Tobacco	C99	Spinning and doubling on the cotton and flax systems
	Coke ovens and manufactured fuel Mineral oil refining	C100	Weaving of cotton, linen and man-made fibres
	Lubricating oils and greases		Woollen and worsted
	General chemicals (inorganic)		Jute
	General chemicals (organic)	C103	Rope, twine and net
C29	General chemicals (other than inorganic	C104	Hosiery and other knitted goods
	and organic)		Lace Carpets
	Pharmaceutical chemicals and preparations		Narrow fabrics
	Toilet preparations		Made-up household textiles and handkerchiefs
	Paint Soap and detergents	C109	Canvas goods and sacks, etc.
	Synthetic resins and plastics materials	C110	Textile finishing
C34	and synthetic rubber		Asbestos
C35	Dyestuffs and pigments		Miscellaneous textiles
	Fertilizers	CII3	Leather (tanning and dressing) and
	Polishes	C114	fellmongery Leather goods
	Formulated adhesives, gelatine, etc.	C115	
	Explosives, fireworks and matches	C116	Waterproof outerwear
	Formulated pesticides and disinfectants	C117	Men's, and boys' tailored outerwear
	Printing ink	C118	Women's and girls' tailored outerwear
	Surgical bandages, etc.	C119	Overalls and men's shirts, underwear, etc.
	Photographic chemical materials	C120	Dresses, lingerie, infants wear, etc. Hats, caps and millinery
	Iron and steel (general)	C121	Corsets and miscellaneous dress industries
	Steel tubes Iron castings, etc.		Gloves
	Aluminium and aluminium alloys		Footwear
	Copper, brass and other copper alloys	C125	Bricks, fireclay and refractory goods
	Miscellaneous base metals		Pottery
	Agricultural machinery (except tractors)		Glass Cement
C51	Metal-working machine tools Pumps, valves and compressors		Abrasives
C53	Industrial engines		Miscellaneous building materials and mineral
	Textile machinery and accessories		products
C55	Construction and earth moving equipment	C131	Timber
	Mechanical handling equipment	C132	Furniture and upholstery Bedding and soft furnishing
	Office machinery	C133	
C50	Mining machinery Printing, bookbinding and paper goods	C135	Wooden containers and baskets
039	making machinery	C136	Miscellaneous wood and cork manufacturers
C60	Refrigerating machinery (except domestic		Paper and board
200	type refrigerators)	C138	Cardboard boxes, cartons and fibre-board
C61	Space heating, ventilating and air-	C120	packing cases Packaging products of paper and associated
	conditioning equipment	C139	Packaging products of paper and associated materials (other than board)
C62	Food and drink processing machinery	C140	Manufactured stationery
C63	Miscellaneous (non-electrical) machinery	C141	Wallcovering
C64	Industrial (including process) plant and		Miscellaneous manufactures of paper and board
CCE	steelwork	C142	
C65	Ordnance and small arms General mechanical engineering	G1.12	periodicals
C67	Photographic and document copying equipment	C143	
	Watches and clocks	C144	Rubber Linoleum, plastics floor covering,
C69	Surgical instruments and appliances	C143	leathercloth, etc.
C70	Scientific and industrial instruments	C146	Brushes and brooms
	and systems	C147	Toys, games and children's carriages
C71	Electrical machinery		Sports equipment
C72 C73	Insulated wires and cables Telegraph and telephone apparatus and	C148	
C/3	Telegraph and telephone apparatus and equipment		Plastics products Musical instruments
C74		C150	Musical instruments Miscellaneous manufacturing industries
C75	Broadcast receiving and sound	C151	Gas
	reproducing equipment		Electricity
	Electronic computers	C153	Water supply
C77	Radio, radar and electronic capital goods	C154	

C75 Broadcast receiving and sound reproducing equipment

This report on the Broadcast Receiving and Sound Reproducing Equipment Industry relates to establishments engaged wholly or mainly in manufacturing gramophone records and pre-recorded tapes, including video tape; radio and television receivers, radiograms and gramophones, tape recorders (including video tape recorders), dictating machines, etc., audio equipment, A.F. (audio frequency) amplifiers, and public address systems. Electronic components, and cabinets for radio receivers, etc. are excluded.

The industry corresponds to minimum list heading 365 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 75. The definition of the industry is the same for the 1968 and 1970 censuses. 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).

C75.8

C75.9

Table Title
No

Section I - Estimates for all United Kingdom establishments in the industry

Net output, 1963, 1968 and 1970 - Establishments classified to the industry

Capital expenditure and stocks, 1963, 1968 and 1970 - Establishments classified to the industry

C75.4

Analysis of establishments by size, 1970 - Establishments classified to the industry

Percentage analysis of employees by age and sex, 1970 - Establishments classified to the industry

C75.6

Regional distribution of employment, net capital expenditure and net output, 1970 -

Regional distribution of employment, net capital expenditure and net output, 1970 Establishments classified to the industry

C75.7

Section II - Analysis of returns received

Analysis of net output of returns received from establishments employing 25 or more persons, 1963, 1968 and 1970

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

Net output, 1963, 1968 and 1970

TABLE 1

All United Kingdom establishments classified to the industry (a)

(d) offer 18 sper sear	Unit	1963	1968	1970
Enterprises	Number	115	168	181
Establishments (b)	11	157	212	202
Sales of goods produced and work done	£'000	150,000	151 000 (308,167
Services rendered to other organisations (c)	11	3 152,803	171,908 {	4,207
Goods merchanted or factored .	11	17,732	5 500 }	38,878
Canteen takings	11	} 17,732	5,589	592
Total sales and work done	11	170,535	177,497	351,844
Change during the year, goods on hand for sale	п	- 446	+ 2,600	+ 2,562
Change during the year, work in progress	11	+ 3,501	+ 3,282	+ 5,623
Gross output	11	173,591	183,379	360,029
Cost of purchases	11	97,244	105,900	209,814
Change during the year, stocks of materials, stores and fuel	11	+ 1,773	+ 2,541	+ 2,937
Payments to other organisations	2 2 2	August Valley	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
for work done on materials given out	11	1,121	1,868	3,900
for transport by road	- 11		561	1,317
for transport by rail, water, air and Post Office parcel services (d)	11	852	169	497
Cost of Artists' royalties, fees and copyright payments, etc.	11		3,416	5,121
Receipts on account of performing rights,		2,219	0.50	fore large
royalties and copyright, etc. Total costs	11	00 662	2,501	2,529
Net output	11	99,663	106,872	215,182
	11	73,928	76,507	144,846
Total employment (including working proprietors) (e)	Thousands	53.6	41.6	52.0
and the second second second second		e man temperature leitel	red to sell men	garding bear
Net output per head	£	1,379	1,839	2,787

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

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

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

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

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

Capital expenditure and stocks, 1963, 1968 and 1970

All United Kingdom establishments classified to the industry (a)

	A SECTION AND SECTION	a colored to and	1963	1968	1970 (b)
Capital expenditu	e		£'000	£,000	£'000
New building wor			406	859	2,954
Land and existing	g buildings		amos a	ser has beaution	shoot to sale
Acquisitions			31	236	289
Disposals			228	92	586
Plant and machin	ery				
Acquisitions			2,594	3,002	4,805
Disposals			764	139	379
Vehicles			рециона	TE NYON , MARK IN	i pairuž suliji
Acquisitions			321	488	944
Disposals			183	236	268
Total net ca	pital expenditure (c)		2,178	4,118	7,761
Stocks and work in	progress at end of year		San des	andreas de la composición de	work Mouw 102
Materials, store	s and fuel		11,276	13,337	18,847
Work in progress			55,434	13,885	23,480
Goods on hand for	r sale		12,694	8,607	13,085
Total stocks			79,404	35,830	55,412
					Company of the Compan

⁽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 less disposals.

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	Casas	N. 4	Net	Capital	Total stocks and work in
Size group (b)	Enterprises (c)	Estab- lishments (d)	Total employment (b)	Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)	sales and work done (f)	Gross output	Net output	output per head	expenditure (net) (g)	end of year
	Number	Numbe r	Number	Number	Number	£'000	£,000	£	£	£,000	£,000	£,000	£	£,000	£,000
1-10	92	92	766												
11-24	39	39	844	1,733	1,140	1,269	1,428	732	1,253	19,665	20,276	6,986	2,414	1,948	2,969
25-49	10	10	382	1,755	1,140	1,203	1,420	102	1,200	10,000		3,000	,		
50-99	12	13	902)										131.	
100-299	18	19	3,204	2,155	1,039	1,611	1,438	747	1,384	16,884	17,002	5,559	1,735	277	4,054
300-499	8	9	3,651	2,286	1,365	2,012	1,848	880	1,354	15,695	16,221	6,874	1,883	791	4,175
500-749	5	6	3,435	2,308	1,127	2,065	1,555	895	1,380	19,759	20,571	7,157	2,083	1,127	4,500
750-1,499	4	5	5,905	4,412	1,493	3,563	2,048	807	1,372	36,309	37,567	13,446	2,277	666	8,415
1,500-2,999	3	5	11,792	8,780	3,012	7,204	3,230	821	1,072	88,467	89,411	27,643	2,344	876	11,009
3,000 and over	4	4	21,088	12,859	8,229	10,914	11,619	849	1,412	155,064	158,980	77,181	3,660	2,076	20,289
Total	181	202	51,969	34,533	17,405	28,638	23,165	829	1,331	351,844	360,029	144,846	2,787	7,761	55,412

- (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) See definition of establishments in 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 any technical or other services rendered).
- (g) Acquisitions less disposals.

ABLE 5

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

All United Kingdom establishments classified to the industry

Ages	Males	Females	All employees	
100 March 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	per cent	per cent	per cent	
Under 18	2	3	5	
18 and over	44	51	95	
All ages	46	54	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

5983	5391			4 4 2 LU					
Area		e number ved (a)		apital ture (b)	Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (c)				
400 480	28	1 80			Estimated net	Average number employed as a	Net output as percentage of		
and at any	585,8	30 K			output	percentage of total average number employed in the industry in the region	total of the industry in the United Kingdom		
12.85	Thousands	per cent	£'000	per cent	£,000	roman mann era e	Charles Carres		
ALLE OFF	110314 +	United Kingdom		United Kingdom	lar ist baz	in resp. com	or combine squadly		
Standard Regions of England	201 X 14 14 1	733.18			ARREDA	eras dres anes s	Elignistik angah) Sik		
North	*	*	*	*	*	*	*		
Yorkshire and Humberside	3.8	7.4	871	11.2	6,318	66.4	4.4		
East Midlands	*	*	*	*	*	*	*		
East Anglia	*	*	*	*	*	*	*		
South East	32.1	61.7	4,481	57.7	91,483	84.2	63.1		
South West	6.8	13.2	1,154	14.9	5,198	53.9	3.6		
West Midlands	1.1	2.1	220	2.8	187	24.1	0.1		
North West	*	*	*	*	*	*	* * *		
England	48.3	92.9	7,332	94.5	108,071	77.3	74.6		
Wales	*	*	*	*	*	*	*		
Scotland	#() *	*		-	*	*	*		
Great Britain	*	*	*	*	*	*	*		
Northern Ireland	*	*	*	*	*	*	*		
Unallocated (d)	1.00	_8.88	1 9		28,998		20.0		
United Kingdom	52.0	100.0	7,761	100.0	144,846		100.0		

⁽a) Including working proprietors.

⁽a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1970.

⁽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.

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.

TABLE 7

Analysis of net output of returns received from United Kingdom establishments employing 25 or more persons, 1963, 1968 and 1970

	Unit	1963	1968	1970
Enterprises	Number	57	40	37
Establishments (a)	п	98	82	55
Sales of goods produced and work done	£'000)	(289,604
Services rendered to other organisations (b)	11	150,420	165,554	4,055
Goods merchanted or factored	11			35,146
Canteen takings	11	17,456	5,382	
Total sales and work done	11 00	167,876	170,936	577
Change during the year, goods on hand for sale	ROLFINE (haring	170,936	329,383
change during the year, goods on hand for safe	II de la constitución de la cons	- 439	+ 2,504	+ 2,124
Change during the year, work in progress	II .	+ 3,447	+ 3,161	+ 5,427
Gross output	11	170,884	176,600	336,934
Cost of purchases	11	95,728	101,985	195,023
Change during the year, stocks of materials, stores and fuel	1 II	+ 1,745	+ 2,447	+ 2,668
Payments to other organisations				63.7934
for work done on materials given out	п 223	1,104	1,799	3,620
for transport by road	H I		540	1,240
for transport by rail, water, air and Post Office parcel services (c)	"	838	163	401
Cost of Artists' royalties, fees and copy-			7 100	431
right payments, etc. Receipts on account of performing rights,	11	$\left \right $ 2,184 $\left\{ \right $	3,290	4,373
royalties and copyright, etc.	п] 2,104	2,409	1,870
Total costs	H	98,109	102,921	200,149
Net output	11	72,775	73,679	136,785
Total employment (including working proprietors) (d)	Thousands	52.8	40.1	48.3
Net output per head	£	1,379	1,839	2,834

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

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
	per cent	per cent
.970 April (a)	1.8	0.4
May	1.8	0.1
June	7.3	28.9
July	0.0	0.0
August	1.8	0.1
September	0.0	0.0
October	9.1	5.3
November	1.8	0.3
December	36.4	32.6
971 January	1.8	0.6
February	0.0	0.0
March (b)	38.2	31.7
	100.0	100.0

⁽a) From 6th April.

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⁽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.

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

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.

Fnternrise

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

= 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.

Sales

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 salaries

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 USE

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 FIGURES

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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