PA322

Business Statistics Office

Business Monitor

Report on the Census of Production

Copper, brass and other copper alloys

1976

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Special Note for Purchasers

Commencing with the 1971 Census; the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

Government Statistical Service

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PA322

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Copper, brass and other copper alloys

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

Department of Industry Business Statistics Office

London: Her Majesty's Stationery Office

Grain milling

Biscuits

Margarine

Soft drinks

Tobacco

PA271.2 Organic chemicals

Paint

Polishes

PA271 3 Miscellaneous chemicals

Sugar

Coal mining
Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction Petroleum and natural gas

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Cocoa, chocolate and sugar confectionery

Bread and flour confectionery

Fruit and vegetable products

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Mineral oil refining Lubricating oils and greases

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

Brewing and malting

PA239.2 British wines, cider and perry

Inorganic chemicals

Toilet preparations

Soap and detergents

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc.

Iron and steel (general)

Miscellaneous base metals

Metal-working machine tools

PA333.3 Compressors and fluid power equipment

Industrial engines
Textile machinery and accessories

Mechanical handling equipment

Photographic chemical materials

Aluminium and aluminium alloys

Copper, brass and other copper alloys

Agricultural machinery (except tractors)

Construction and earth-moving equipment

PA339.2 Printing, bookbinding and paper goods machinery

synthetic rubber

PA279.3 Explosives and fireworks

PA279.5 Printing ink PA279.6 Surgical bandages, etc.

Steel tubes

PA279.4 Formulated pesticides, etc.

Iron castings, etc.

Office machinery

Mining machinery

Milk and milk products

PA 1001

PA101

PA103

PA104

PA211

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PA331

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PA339.1

PA333.1 Pumps

PA333.2 Valves

PA229.1

PA369.1	Electrical equipment for motor vehicles, cycles and aircraft
	and aircraft

PA369.2 Primary and secondary batteries PA369.4 Electric lamps, electric light fittings, wiring

accessories etc. PA370 Shipbuilding and marine engineering

PA380 Wheeled tractor manufacturing PA381 1 Motor vehicle manufacturing PA381.2 Trailers, caravans and freight containers

PA382 Motor cycle, tricycle and pedal cycle manufacturing PA383 Aerospace equipment manufacturing and repairing Locomotives railway track equipment, railway carriages PA384

wagons and trams PA390 Engineers' small tools and gauges PA391

Hand tools and implements
Cutlery, spoons, forks and plated tableware, etc. PA392

Bolts, nuts, screws, rivets, etc. PA393 Wire and wire manufactures PA394 PA395 Cans and metal boxes

Jewellery and precious metals PA396

Metal furniture PA399.1 PA399.5 Drop forgings, etc. PA399 6 Metal hollow-ware

PA399.8 Miscellaneous metal manufacture PA411 Production of man-made fibres

Spinning and doubling on the cotton and flax systems PA412 PA413 Weaving of cotton, linen and man-made fibres Woollen and worsted PA414

PA415

Jute Rope, twine and net PA416

Hosiery and other knitted goods

PA417.2 Warp knitting PA418 Lace PA419 Carpe Carpets

Narrow fabrics Household textiles and handkerchiefs PA422 1

PA422.2 Canvas goods and sacks and other made-up textiles Textile finishing PA423

PA429.1 Ashestos

PA429.2 Miscellaneous textile industries Leather (tanning and dressing) and fellmongery PA431

PA432 Leather goods

PA433 Fur

PA441 Weatherproof outerwear PA442 Men's and boys' tailored outerwear

PA443 Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc. PA444

Dresses, lingerie, infants' wear, etc. PA446 Hats, caps and millinery

Corsets and miscellaneous dress industries PA449 1

PA449 2 Gloves

PA450 Footwear PA461.1 Refractory goods

PA461.2 Building bricks and non-refractory goods PA462 Pottery

PA463 Glass PA464 Cement

PA469.1 PA469.2 Miscellaneous building materials and mineral products

PA471 Furniture and upholstery PA472 PA473

Shop and office fitting PA475

PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment Miscellaneous wood and cork manufactures PA479

PA339.5 Scales and weighing machinery and portable power tools PA482.1 PA339.7 Food and drink processing machinery and

packaging and bottling machinery Miscellaneous (non-electrical) machinery

PA341 Industrial (including process) plant and steelwork Ordnance and small arms Ball, roller, plain and other bearings

PA349.2 Precision chains and other mechanical engineering PA351 Photographic and document copying equipment PA352 Watches and clocks

PA353 Surgical instruments and appliances PA354 Scientific and industrial instruments and systems PA361 Electrical machinery

Insulated wires and cables PA363 Telegraph and telephone apparatus and equipment

Radio and electronic components PA365 1 Gramophone records and tape recordings PA365.2 Broadcast receiving and sound reproducing equipment

PA366 Electronic computers Radio, radar and electronic capital goods PA367 Electrical appliances primarily for domestic use PA368

Abrasives Timber Bedding, etc. Wooden containers and baskets Paper and board Cardboard boxes, cartons and fibre-board packing cases PA482.2 Packaging products of paper and associated materials
PA483 Manufactured stationery PA484.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and board Printing, publishing of newspapers and periodicals PA485 General printing and publishing PA489 PA491 Rubber Linoleum, plastics floor-covering, leathercloth, etc. PA492 Brushes and brooms PA493 Toys, games and children's carriages PA494. PA494.3 Sports equipment
PA495 Miscellaneous stationers' goods Plastics products PA499 Musical instruments PA499.2 Miscellaneous manufacturing industries Construction PA500 PA602 Flectricity PA603 Water supply PA1002 Summary tables

PA322 COPPER, BRASS AND OTHER COPPER ALLOYS

The information in this report relates to establishments classified to the Copper, brass and other copper alloys industry, minimum list heading 322 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Refining copper, making copper alloys (brass, bronze, etc.). The production in copper and its alloys of ingots, bars, billets, sheets, strip, foil, circles, sections, rods, pipes, tubes, etc., and of die castings. The production of engineers' castings, stampings and pressings is included but wire drawing and the production of finished goods such as hollow-ware are excluded.

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

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PA322

Output and costs, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976
Enterprises	Number	407	412	409	396
Establishments	une i _n estrubera	466	475	465	454
Sales of goods produced	£ thousand	725,960	845,861	683,074	752,973
Receipts for work done and industrial services rendered	rocea el XI estáaz rocelleros Asidera	(b)	(b)	(b)	615
Capital goods produced for establishments' own use	,,	595	819	1,684	541
Non-industrial services rendered	"	1,520	9,525	5,400	2,459
Goods merchanted or factored	"	34,040	30,979	13,222	14,814
Total sales and work done (c)	,,	762,115	887,184	703,380	771,402
Increase during the year, work in progress and goods on hand for sale	"	30,553	11,265	-15,990	24,066
Gross output	"	792,668	898,449	687,390	795,469
Purchases of materials for use in production, and packaging and fuel	· ·	563,300	645,444	446,409	544,363
Purchases of goods for merchanting or factoring	"	30,617	28,226	10,174	11,457
Increase during the year, stocks of materials, stores and fuel	,	28,950	-3,737	80	17,492
Cost of industrial services received	,,	9,348	12,700	12,192	17,553
Net output	"	218,353	208,342	218,694	239,587
Total employment (d)	Thousands	48.8	46.4	44.5	41.8
Net output per head	£	4,473	4,491	4,914	5,733
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	963	1,241	1,345	1,577
Commercial insurance premiums	11	1,479	1,520	2,454	2,463
Bank charges		223	408	169	213
Other non-industrial services (g)	"	6,704	8,777	11,227	12,984
Licensing of motor vehicles	,,	143	148	188	198
Rates, excluding water rates	.,	2,690	3,370	4,463	4,778
Gross value added at factor cost		206,150	192,879	198,849	217,374
Gross value added at factor cost per head	£	4,223	4,158	4,468	5,202

- (a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 84 per cent of employment within the industry.
- (b) Included with Sales of goods produced.
- (c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ322.
- (d) Average number employed, including full and part-time employees (see table 7) and working proprietors.
- (e) 1973 figures include hire of vehicles.
- (f) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £473 thousand.
- (g) 1974-1976 figures include the cost of hiring goods vehicles.

Capital expenditure, 1973 - 1976

All United Kingdom establishments classified to the industry (a)(b)

7,00					£ thousand
The other Side out in some	1973	1974	1975		1976
Land and buildings		- 100.000 (200 E)	158	esters	
New building work	1,127	1,781	1,383		979
Land and existing buildings					
Acquisitions	292	988	1,347		286
Disposals	218	850	299		1,529
Vehicles					
Acquisitions					
Motor cars	860	999)	1,469		1,668
Other vehicles	498	472)	1,400		1,000
Disposals Motor cars	327	350)			
Other vehicles	43	98)	398		556
Plant and machinery					
Acquisitions	9,852	11,120	12,381		10,680
Disposals	223	659	591		423
Total net capital expenditure	11,817	13,402	15,291		11,105

- (a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 84 per cent of employment within the industry.
- (b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

TABLE 3

Stocks and work in progress, 1973 - 1976

All United Kingdom establishments classified to the industry (a)

					£ thousan
	1973	1974	1975		1976
	the day gradier o	er en ind Hotels	Increase	all dure to have oblige	Value at end of year
Materials, stores and fuel	28,950	-3,737	80	17,492	72,490
Work in progress	21,677	2,644	-9,229	15,821	57,631
Goods on hand for sale	8,876	8,622	-6,761	8,245	36,882
Total	59,503	7,528	-15,911	41,558	167,003

a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 84 per cent of employment within the industry.

Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employmen	t		Wages and sa	laries (f)		MOLY:
			Total	Opera- tives	Others (e)	Operatives		Others (e)	NAW.
			(d)	tives	(6)	Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	198	193	1,068)						
11 - 19	80	79	1,168)	5,548	1,540	13,968	2,518	5,648	3,668
20 - 49	66	66	2,027)	3,340	1,040	40,000	10.00	\$150 3060 733,6 secures 190	
50 - 99	44	42	3,137)						
100 - 199	27	20	3,704	2,900	801	8,026	2,768	2,879	3,594
200 - 299	8	7	1,984	1,485	493	4,525	3,047	1,748	3,546
300 - 499	13	7	4,978	3,754	1,224	10,803	2,878	4,180	3,415
500 - 749	9	7	5,162	3,771	1,391	11,894	3,154	4,702	3,380
750 and over	9	7	18,561	13,329	5,232	41,177	3,089	20,480	3,914

Total ·	454	396	41,789	30,787	10,681	90,393	2,936	39,637	3,711

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

4

Total sales and work done (g)	and work done (g)				(e) 20 (e) 20 81 91 90	Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	f to reason the control of the contr	£ thousand	£	£ thousand	£ thousand
118,588	120,775	40,280	5,443	(j)	(j)	2,324	18,252
71,446	72,224	20,530	5,543	55,228(j)	4,974(j)	1,385	9,697
29,058	30,260	11,507	5,800	10,457	5,271	1,103	6,728
71,965	74,449	28,683	5,762	26,428	5,309	1,610	14,414
145,557	149,601	31,807	6,162	28,544	5,530	466	33,225
334,788	348,159	106,780	5,753	96,718	5,211	4,218	84,687

771,402	795,469	239,587	5,733	217,374	5,202	11,105	167,003

The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £20,525 thousand. In addition, the remuneration of outworkers on returns received was £20 thousand.

⁽b) Average number employed, including full and part-time employees (see table 7) and working proprietors.

⁽c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

⁽h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

⁽j) Gross value added data relate to establishments employing 1-199.

TABLE 6

PA322

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 All United Kingdom establishments classified to the industry

Area	Total employmen	at (a)	Net capital expenditure	Net capital expenditure (b)(c)		Net output, gross value added and employment in the region from returns received from establish- ments with more than 80 per cent of their employ- ment in the region (d)			
					Net output	Gross value added at factor cost	percenta	ment as a age of total employment ndustry	
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	10		
Standard regions of England									
North	0.7	1.6	174	1.6	3,579	3,300	84.7		
Yorkshire and Humberside	6.4	15.4	1,314	11.8	*	*	*		
East Midlands	0.4	1.0	108	1.0	1,410	1,332	47.2		
East Anglia	0.4	1.0	81	0.7	******	*	*		
South East	4.5	10.8	2,086	18.8	21,725	18,630	71.5		
South West	0.7	1.7	263	2.4	3,077	2,848	95.6		
West Midlands	23.4	56.0	6,664	60.0	113,375	102,571	87.2		
North West	3.8	9.0	52	0.5	17,688	16,355	68.8		
England	40.4	96.6	10,741	96.7	188,559	170,965	80.8		
Wales	0.5	1.2	89	0.8	2,669	2,359	89.8		
Scotland	0.9	2.2	275	2.5	3,208	2,924	47.1		
Great Britain	41.8	100.0	11,104	100.0	194,436	176,247	80.1		
Northern Ireland	_	-		-	-	-	-		
Unallocated (e)	-	-	-	-	45,151	41,128	_		
United Kingdom (b	41.8	100.0	11,104	100.0	239,587	217,374			

(a) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.

New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added 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 and gross value added at each address covered by a return was proportional to employment at the address.

(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

Accounting year end	ed	Percentage of total re	eturns received	Percentage of to	otal number employed
actest bottours	tota out appet	per cent		per cent	NATE TRANSPORTED A SECTION
1976 April (a)		0.8		0.1	
May		0.0		0.0	
June		6.4		1.2	
July		4.8		4.7	
August		2.4		0.5	
September		4.8		2.0	
October		1.6		0.3	
November		1.6		0.2	
December		48.4		65.6	
1977 January		11.3		16.2	
February		0.8		0.3	
March (b)		16.9		9.0	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

Sex	Full-time	Part-time	All employees
6 - 77386 (180 280)	per cent	per cent	per cent
Male	80	the discount of the description	81
Female	14	5	19

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end June, 1976.

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor - PA1001 (Introductory Notes) of the Report on the Census of Production, 1976.

GENERAL INFORMATION

Changes made for 1976

The Census for 1976 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1975. These include separate headings for:

Sales of goods produced

Receipts for work done and industrial services

rendered

Amounts paid for hire of plant and machinery
Amounts paid for rent of industrial and

commercial buildings

Specific changes are explained in the introductions to the industry reports or by footnotes to the tables.

Suppression of information relating to individual

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act -

in compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed."

If a figure involved disclosure the contributor concerned was sometimes asked to give permission for its publication. In the majority of cases permission was given. When it was refused and where contributors were not approached the figure has been suppressed, either by combining it with other figures, or as in the regional tables, by omitting the figure altogether.

Cumbala used

The following symbols are used throughout the PA series of Business Monitors:

.. not available

- nil or less than half the final digit shown

figures cannot be shown owing to the risk of disclosing information about individual enterprises

R revised

Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total shown.

Industrial classification

The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ1000.

Statistical units

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address e.g. a farm, a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses, Where this is so, businesses are asked to provide the full range of separate information in respect of each address; whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables. Efforts are made by the Business Statistics Office

to ensure, by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the

countries of the United Kingdom.

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No.13 May

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return. Particulars relating to head offices mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them. For certain purposes in the annual censuses of

production (especially the enterprise analyses of Business Monitor PA1002) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of either a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments.

HE REGISTER

The register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises.

The inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment. Establishments with 20 or more employees are

Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those with 25 or more employees provide to the quarterly inquiries. Information about establishments with fewer than 20 employees in most industries is less securely based, but increasing use has been made of data on these small establishments supplied by the Department of Employment. One benefit of using this information is an improvement in the estimates of the number of smaller establishments and enterprises, but there is little effect on other aggregates (e.g. employment, output, net capital expenditure).

overage

A return was required in the 1976 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

gions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

TERMS USED IN THE CENSUS REPORT

verage number employed

Establishments were required to state the number of persons on the payroll on average during the Year of return, whether full-time or part-time employees. Separate figures were required for:

- (a) administrative, technical and clerical employees
- (b) all other employees (operatives)

Werages could be calculated from the figures elating to the last week of each calendar month. stablishments 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 establishment) 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 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 directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include operatives employed in power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but outworkers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

(a) New building work

This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and 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 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 or premium payable
for leaseholds acquired (excluding the value of
assets acquired in taking over an existing
business), and the amounts receivable for freeholds or leaseholds disposed of. The value is
that charged to capital account during the year of

(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 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. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsoles-cence. The proceeds of items disposed of during the year exclude amounts written-off for items scrapped.

Cost of industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishpayments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" are also included.

Gross output In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for

Net output Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

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

Gross value added at factor cost Gross value added at factor cost is calculated by deducting from net output the cost of nonindustrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full 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 raw materials,

components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given customers; or other capital items for the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable corresponding to the estimated selling value research and studies for other organisations.

recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of staff for their own use. plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned of returned goods or packaging material returned to suppliers and any trade discounts are excluded, Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their accounts. accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the foods merchanted or factored transport from docks or airport is not included in the cost of goods purchased, the cost is entered at sales) sold without having been subjected to any coi.f. plus duty (if applicable). Leasing, renting manufacturing process by the seller. and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments capital asset accounts. Forward sales and canteed takings are excluded. All sales in the period of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

Macrondation takings are excluded. All sales in the goods were manufactured. Goods produced in one establishment and transferred either to ancillar departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as they had been sold to an independent purchaser establishment and valued as far as possible as the values shown include all overtime payments, bonuses and commissions, whether paid income tax, insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc. is excluded. organisations, for which separate accounts as kept are valued on the same basis.

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on a ex-works or delivered basis, after any tradiction of the cost of packing materials allowance for returnable cases is included. Industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond of exported. exported.

Work done and industrial services rendered

Stocks and work in progress

Remuneration paid to outworkers
The remuneration paid to outworkers (i.e. persons
employed by the establishment who do their work in
their own homes) is generally on a piece-work
basis. Only amounts paid to outworkers whose names
appear on the establishment's payroll are included.
Amounts paid to outworkers by sub-contractors are
excluded excluded.

Work done and industrial services rendered
Figures for work done represent the amount charge This Item includes employers contributions to for work carried out on materials supplied by national insurance and graduated pensions (and/or customer and include repair work. Within certain arrange related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc. for employees, former employees and their dependants are also

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