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Business Monitor

Report on the Census of Production

Cans and metal boxes

BRITISH LIERARY
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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

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

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Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Cans and metal boxes

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

Petroleum and natural gas

Milk and milk products

PA229.2 Starch and miscellaneous foods

Brewing and malting

PA239.2 British wines, cider and perry

Mineral oil refining

Inorganic chemicals

Toilet preparations

synthetic rubber

PA279.4 Formulated pesticides, etc.

Iron castings, etc.

PA279.6 Surgical bandages, etc.

Steel tubes

Fertilizers

Polishes

PA279.5 Printing ink

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc. PA279.3 Explosives and fireworks

PA279.7 Photographic chemical materials

Iron and steel (general)

Aluminium and aluminium alloys

Lubricating oils and greases

Soft drinks

Tobacco

PA271.2 Organic chemicals

Paint

PA271.3 Miscellaneous chemicals

Fruit and vegetable products Animal and poultry foods

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Soap and detergents
Synthetic resins and plastics materials and

Bread and flour confectionery

Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Cocoa, chocolate and sugar confectionery

PA1001 Introductory notes Coal mining

Grain milling

Biscuits

Sugar

PA229.1 Margarine

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PA279.1

PA271.1

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

PA369.2	Primary	and secondary batteries	
DARCO A	Cl+-!-	1 1 1 1 1 1 1 1 1	

1 7503.2	i illiary and secondary batteries
PA369.4	Electric lamps, electric light fittings, wiring
	accessories etc

Shipbuilding and marine engineering

Wheeled tractor manufacturing

wagons and trams Engineers' small tools and gauges

PA393 Bolts, nuts, screws, rivets, etc. PA394 Wire and wire manufactures

- PA395 Cans and metal boxes
- Jewellery and precious metals PA399 1 Metal furniture
- PA399.5 Drop forgings, etc. PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture
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- Spinning and doubling on the cotton and flax systems Weaving of cotton, linen and man-made fibres PA413
- PA414 Woollen and worsted PA415 Jute
- PA416 Rope, twine and net
- PA417.1 Hosiery and other knitted goods
- PA417.2 Warp knitting PA418 Lace
- PA419 Carpets PA421 Narrow fabrics
- Household textiles and handkerchiefs
- PA422.2 Canvas goods and sacks and other made-up textiles PA423 Textile finishing
- Asbestos
- PA429.2 Miscellaneous textile industries PA431
- Leather (tanning and dressing) and fellmongery
- PA432 Leather goods PA433
- PA441 Weatherproof outerwear
- Men's and boys' tailored outerwear Women's and girls' tailored outerwear PA442 PA443
- PA444 Overalls and men's shirts, underwear, etc.
- PA445 Dresses, lingerie, infants' wear, etc. Hats, caps and millinery
- PA322 Copper, brass and other copper alloys Miscellaneous base metals PA//0 1 Corsets and miscellaneous dress industries
- PA331 Agricultural machinery (except tractors) PA449.2 Gloves PA332 Metal-working machine tools PA450 Footwear
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 Textile machinery and accessories PA463 Glass PA335
- PA464 Cement PA336 Construction and earth-moving equipment PA469.1 Abrasives PA337 Mechanical handling equipment
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- PA339.2 Printing, bookbinding and paper goods machinery Bedding, etc. **PA474** Shop and office fitting
- PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA475 Wooden containers and baskets PA339.5 Scales and weighing machinery and portable Miscellaneous wood and cork manufactures
- power tools PA481 Paper and board PA339.7 Food and drink processing machinery and PA482 1
- Cardboard boxes, cartons and fibre-board packing cases packaging and bottling machinery PA482.2 Packaging products of paper and associated materials PA339.9 Miscellaneous (non-electrical) machinery PA483 Manufactured stationery
- Industrial (including process) plant and steelwork PA484.1 Wallcoverings Ordnance and small arms PA484.2 Miscellaneous manufactures of paper and board PA349.1 Ball, roller, plain and other bearings Printing, publishing of newspapers and periodicals
- PA349.2 Precision chains and other mechanical engineering PA489 General printing and publishing PA351 Photographic and document copying equipment PA491 Rubber PA352 Watches and clocks PA492 Linoleum, plastics floor-covering, leathercloth, etc. Surgical instruments and appliances PA493
- Brushes and brooms PA354 Scientific and industrial instruments and systems PA494.1 Toys, games and children's carriages PA361 Electrical machinery PA494.3 Sports equipment
- Insulated wires and cables PA495 Miscellaneous stationers' goods PA363 Telegraph and telephone apparatus and PA496 Plastics products equipment Musical instruments
- Radio and electronic components PA499.2 Miscellaneous manufacturing industries PA365.1 Gramophone records and tape recordings PA500 Construction
- PA365.2 Broadcast receiving and sound reproducing PA601 Gas equipment PA602 Electricity Electronic computers PA603 Water supply PA367

Radio, radar and electronic capital goods PA1002 Summary tables Electrical appliances primarily for domestic use

PA395 CANS AND METAL BOXES

The information in this report relates to establishments classified to the Cans and metal boxes industry, minimum list heading 395 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing tin and aluminium cans, metal boxes and other small metal containers and parts. Cash and deed boxes are excluded and are classified to minimum list heading 399.

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

	Unit	1973	1974	1975	1976
Enterprises	Number	90	89	91	92
Establishments	"	115	113	113	114
Sales of goods produced	£ thousand	228,026	292,028	335,408	448,093
Receipts for work done and industrial services					
rendered	"	(b)	(b)	(b)	1,765
Capital goods produced for establishments' own use	,,		The route, screwed tox		
		368	460	598	624
Non-industrial services rendered	"	793	1,181	1,797	1,736
Goods merchanted or factored	"	(b)	3,272	3,722	5,559
Total sales and work done (c)	"	229,187	296,941	341,525	457,777
Increase during the year, work in progress and					
goods on hand for sale	"	616	3,511	1,376	8,592
Gross output	"	229,803	300,452	342,901	466,369
Purchases of materials for use in production, and packaging and fuel	,,				
		151,799	205,309	224,384	318,174
Purchases of goods for merchanting or factoring	"	(d)	2,883	3,310	5,185
ncrease during the year, stocks of materials, tores and fuel	,,	PARTY TO	tile theraking		
		5,167	9,500	-3,723	15,097
Cost of industrial services received	"	3,702	4,691	5,780	7,823
Net output	"	79,470	97,069	105,704	150,283
Total employment (e)	Thousands	29.7	28.8	27.1	28.7
Net output per head	£	2,679	3,374	3,899	5,241
ayments for non-industrial services					
Rents, hire of plant and machinery (f)(g)	£ thousand	498	555	574	881
Commercial insurance premiums	.,	529	525	566	1,092
Bank charges		42	82	61	63
Other non-industrial services (h)	,,	7,781			
icensing of motor vehicles	,,		9,478	10,705	13,730
ates, excluding water rates	,,	86	107	126	157
A TOTAL STATE AND PROPERTY OF A TOTAL STATE STAT		1,220	1,636	2,010	2,226
Gross value added at factor cost	"	69,313	84,687	91,661	132,133
Gross value added at factor cost per head	£	2,336	2,944	3,381	4,608

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 89 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 PQ395.

(d) Included with Purchases of materials for use in production, and packaging and fuel.

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

(f) 1973 figures include hire of vehicles.

(g) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £592 thousand.

2

h) 1974-1976 figures include the cost of hiring goods vehicles.

TABLE 2

Capital expenditure, 1973 - 1976 All United Kingdom establishments classified to the industry (a)(b)

All Officed Kingdom establishments en						£ thousand
Total tales - Creat out 90 m	не дери довоја	1973	1974	1975		1976
Land and buildings			tocomic second	1:1	September 1	proposition
New building work) switting	(2,518	5,967		1,550
Land and existing buildings) -15,718				
Acquisitions) medanish	(241	1,155		453
Disposals		j	(3	25		250
Vehicles						
Acquisitions						
Motor cars		269	327)	1,032		912
Other vehicles		219	697)			
Disposals						
Motor cars		128	120)			
Other vehicles		47) 75)	217		233
Plant and machinery						
Acquisitions		6,800	12,373	13,847		12,592
Disposals		707	753	926		911
Total net capital expenditure		-9,313	15,205	20,833		14,113

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 89 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

All United Kingdom establishments of	hassined to the madst	y (d)			£ thousan
1,708 and 1,019,864 112,564	1973	1974	1975		1976
	ensteine kris szavigne c	a studen sectoring	Increase	arbitates as esar	Value at end of year
Materials, stores and fuel	5,167	9,500	-3,723	15,097	43,299
Work in progress	558	1,940	-23	3,592	10,704
Goods on hand for sale	59	1,571	1,399	5,000	13,286
Total	5,783	13,012	-2,347	23,689	67,289

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 89 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)	Employment			Wages and salaries (f)					
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)	WOL		
						Total	per head	Total	per head		
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£		
1 - 10	43	42	175)						2010(10)		
11 - 19	8	8	106)						1000		
20 - 49	12	12	308)	1,143	189	2,144	1,876	592	3,134		
50 - 99	12	12	817)								
100 - 199	7	7	1,068	931	137	1,925	2,068	371	2,707		
200 - 299	3	3	725	594	131	1,419	2,389	436	3,326		
300 - 399	5	4	1,629	1,339	288	2,932	2,190	1,058	3,673		
400 - 749	5	3	2,838	2,274	564	5,885	2,588	2,002	3,550		
750 and over	19	6	21,010	16,884	4,126	48,366	2,865	15,495	3,756		

Total	114	92	28,676	23,165	5,435	62,671	2,705	19,954	3,671

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

Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
14,360	14,512	6,262	4,454	(j)	(j)	506	2,314
	8,218		X				and receivable
9,679	9,758	4,456	4,172	9,183(j)	3,712(j)	379	1,863
14,789	15,041	4,265	5,883	3,629	5,005	241	1,702
19,999	20,176	6,457	3,964	5,707	3,503	851	2,100
36,111	36,565	12,573	4,430	10,517	3,706	2,168	6,959
362,840	370,318	116,271	5,534	103,098	4,907	9,967	52,350

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101	
(1)	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 £12,090 thousand.

132,133

4,608

14,113

67,289

5,241

150,283

457,777

⁽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.

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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 employment (a)		Net capital expenditure	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 employmen adustry	
Duestrous 3	Thousands	per cent United Kingdor		per cent of United Kingdom	£ thousand	£ thousand	0 2 7000		
Standard regions of England	f								
North	808	*	*	6.68% *	7,595,8 *	1.070 S.18.	P1 885		
Yorkshire and Humberside	2.5	8.6	380	2.7	9,460	8,216	98.6		
East Midlands	646 *	10010,8,	Limpear,e . 839	\$100 m	4.406	2.070 825,	*		
East Anglia	199 *	330.3*	735 0555.E # 754	5,885	1.002.0	*****	ar Ça		
South East	6.3	22.0	2,706	19.2	26,792	23,594	77.5		
South West	881,5 *	*1.206	2,510 s ra,o#1274	*0%/8	0.03*.51	Z.888.*202.	BE 2.*22		
West Midlands	2.5	8.8	684	4.8	48.163,011	Russ*ara	0788 *38		
North West	4.9	17.1	4,243	30.1	*	*	*		
England	24.0	83.9	10,370	73.5	109,822	98,097	80.8		
Wales	2.8	9.6	1,454	10.3	4,614	3,362	83.9		
Scotland	*	*	*	*	*	*	*		
Great Britain	*	*	*	*	*	*	*		
Northern Ireland	*	*	*	*	*	*	*		
Unallocated (e)	-	_	=	-	30,926	26,614	-		
United Kingdom (b)	28.7	100.0	14,113	100.0	150,283	132,133			

(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.

(c) 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 ended		Percentage of total returns received		Percentage of total number employed	
-	partothern bulket	per cent		per cent	wild I add to the source
1976	April (a)	3.9		0.8	
	May	3.9		0.4	
	June	3.8		0.3	
	July	0.0		0.0	
	August	0.0		0.0	
	September	9.6		4.6	
	October	1.9		1.2	
	November	1.9		3.5	
	December	57.7		81.1	
1977	January	3.8		2.8	
	February	0.0		0.0	
	March (b)	13.5		5.3	

(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)

Full-time	Part-time	All employees
per cent	per cent	per cent ,
56	plately - the least to a	56
28	16	44
	per cent 56	per cent per cent 56 -

Source: Department of Employment

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

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Notes

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.

Symbols 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

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.

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 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 1971.

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 o accounts. 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

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 statistics o are combined. For these purposes an enterprise group may be defined as a business consisting of alther a single establishment or two or more establishments under common ownership or control.

Bringing together establishments into enterprise groups is also necessary for the suppose. 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 companies and about common ownership links is btained from many sources, including the Stock exchange Year Book, company reports, press reports and information supplied by individual establish-

HE REGISTER

the register permits a questionnaire to be sent irect to the reporting establishment on which he latter can include information relating to all he 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. or 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. imployment 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.

stablishments with 20 or more employees are included in the censuses each year and the informtion 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 s an improvement in the estimates of the number of activities at these addresses (termed local smaller establishments and enterprises, but there Is little effect on other aggregates (e.g. employ-ment, output, net capital expenditure).

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.

Regions

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

TERMS USED IN THE CENSUS REPORT

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

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

erages 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 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 "selfemployed" 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 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 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 establishment, payments 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.

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.

Net output per head

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 materials; of replacement parts and consumable materials of all types; of stationery and printed materials of all types; of stationery and printed materials to be used by the establishment or given materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment when working on goods supplied by clishment's own use; of materials for use by the establishment when working on goods supplied by covered by the establishment's return. Transfers of goods to the establishment from another depart, ment of the same firm not covered by the establishment's return are included at a cost covered by the other department. Amounts payable to transport firms or condition to the stablishments' on the firm of the same firm of the stransport firms or condition to the stransport firms or condition corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own capital goods produced for establishments' own use transport department for delivery of materials are This includes all work of a capital nature carried excluded, as are all purchases of machinery and out during the year by the establishments' own plant charged to capital account. Purchases of staff for their own use. plant charged to capital account. Purchases of staff for Their Own use. 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 packaging material charged to the establishment. The value of returned goods or packaging material returned out plant, machinery and other goods and amounts 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. 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 Merchanted goods are those (excluding canteen the cost of goods purchased, the cost is entered at sales) sold without having been subjected to any c.i.f. plus duty (if applicable). Leasing, renting manufacturing process by the seller. and hire purchase charges are excluded.

Sales of goods produced

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 lishments in the United Kingdom covered by the lishments 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 return being that adopted in the establishments takings are excluded. All sales in the period of the year of return and of the change during the 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 located the cost of materials consumed and labour used, together with a margin of overhead costs and return being that adopted in the establishments takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one goods were manufactured. Goods produced in one goods were manufactured. Goods produced in one establishment and transferred either to ancillary 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 if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis.

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 redundancy payments less any amounts kept are valued on the same basis.

The value of redundancy payments less any amounts reimbursed from Government sources is included. The value defined as the amount (excluding value added tax) charged to customers whether on an expenses etc. is excluded. ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less industries where products attract Excise Duty the allowance for returnable cases is included. value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Work done and industrial services rendered Figures for work done represent the amount charged for work carried out on materials supplied by 8 customer and include repair work. Within certain

Stocks and work in progress Values are given of stocks of goods on hand for

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.

Employers' insurance and welfare contributions
This item includes employers' contributions to national insurance and graduated pensions (and/or earnings 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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