

Business Statistics Office

Business Monitor

Report on the Census of Production

Locomotives, railway track equipment, railway carriages, wagons and trams

HMSO



publication of the Government Statistical Service

Business Monitor

A publication of the Government Statistical Service

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.

Enquiries:

Business Statistics Office Newport, Gwent NPT 1XG Newport 56111 (STD code 0633) ext 2455 Telex 497121 Answer Back BSONPT G

Report on the Census of Production 1976

Locomotives, railway trackequipment, railway carriages, wagons and trams

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

List of Industry Reports, etc.		PA 384	LOCOMOT	TIVES, RAILW/	AY TRACK EQUI	PMENT, RAILWAY C	RRIAGES, WAGONS AND TRAMS	PA 384
PA1001 Introductory notes	PA369.1 Electrical equipment for motor vehicles, cycles	ATT DATA						
PA101 Coal mining	and aircraft PA369.2 Primary and secondary batteries	The inf	ormation in t	this report r	elates to es	stablishments clas	sified to the Locomotives, rai	llway track
PA102 Stone and slate quarrying and mining PA103 Chalk, clay, sand and gravel extraction	PA369.4 Electric lamps, electric light fittings, wiring	equipme	nt, railway o	Classificati	agons and tra ion (revised	1968). The activ	sified to the Locomotives, rai mum list headings 384 and 385 vities of the industry include:	in the
PA104 Petroleum and natural gas	accessories, etc. PA370 Shipbuilding and marine engineering	Jundar					the industry merude.	· · · · · · · · · · · · · · · · · · ·
PA109 Miscellaneous mining and quarrying PA211 Grain milling	PA380 Wheeled tractor manufacturing							
PA211 Grain milling PA212 Bread and flour confectionery	PA381.1 Motor vehicle manufacturing							
PA213 Biscuits	PA381.2 Trailers, caravans and freight containers PA382 Motor cycle, tricycle and pedal cycle manufacturing	Manut	acturing and	ropairing la	acomotives of	fall types rail	way signals, turntables and aut	Esteblishment
PA214 Bacon curing, meat and fish products PA215 Milk and milk products	PA383 Aerospace equipment manufacturing and repairing	coupl	ings, railway	y coaches, (including the	ose embodying mot	tubs, etc. Light repairs carr	ake vans.
PA216 Sugar	PA384 Locomotives, railway track equipment, railway carriages,	axle	boxes, etc, t	tramcars and	colliery and	d other trams and	tubs, etc. Light repairs carr	ried out in
PA217 Cocoa, chocolate and sugar confectionery	wagons and trams PA390 Engineers' small tools and gauges		ay running si					
PA218 Fruit and vegetable products PA219 Animal and poultry foods	PA391 Hand tools and implements							
PA221 Vegetable and animal oils and fats	PA392 Cutlery, spoons, forks and plated tableware, etc. PA393 Bolts, nuts, screws, rivets, etc.	A Start						
PA229.1 Margarine PA229.2 Starch and miscellaneous foods	PA394 Wire and wire manufactures	2,632				ng the data in the		
PA231 Brewing and malting	PA395 Cans and metal boxes	2				hich commence on		
PA232 Soft drinks	PA396 Jewellery and precious metals PA399.1 Metal furniture							
PA239.1 Spirit distilling and compounding PA239.2 British wines, cider and perry	PA399.5 Drop forgings, etc.	221 (B.K.						
PA240 Tobacco	PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture							
PA261 Coke ovens and manufactured fuel PA262 Mineral oil refining	PA411 Production of man-made fibres	7,467						
PA263 Lubricating oils and greases	PA412 Spinning and doubling on the cotton and flax systems							
PA271.1 Inorganic chemicals	PA413 Weaving of cotton, linen and man-made fibres PA414 Woollen and worsted	13137,1809						
PA271.2 Organic chemicals PA271.3 Miscellaneous chemicals	PA415 Jute							
PA272 Pharmaceutical chemicals and preparations	PA416 Rope, twine and net PA417.1 Hosiery and other knitted goods	DOD FAR						
PA273 Toilet preparations PA274 Paint	PA417.1 Hoslery and other kinited goods PA417.2 Warp knitting	and a second						
PA275 Soap and detergents	PA418 Lace	and and and						
PA276 Synthetic resins and plastics materials and	PA419 Carpets PA421 Narrow fabrics							
synthetic rubber PA277 Dyestuffs and pigments	PA422.1 Household textiles and handkerchiefs							
PA278 Fertilizers	PA422.2 Canvas goods and sacks and other made-up textiles PA423 Textile finishing							
PA279.1 Polishes PA279.2 Formulated adhesives, gelatine, etc.	PA429.1 Asbestos	A ANSIE						
PA279.3 Explosives and fireworks	PA429.2 Miscellaneous textile industries	162,426						
PA279.4 Formulated pesticides, etc.	PA431 Leather (tanning and dressing) and fellmongery PA432 Leather goods							
PA279.5 Printing ink PA279.6 Surgical bandages, etc.	PA433 Fur	42,77						
PA279.7 Photographic chemical materials	PA441 Weatherproof outerwear							
PA311 Iron and steel (general) PA312 Steel tubes	PA442 Men's and boys' tailored outerwear PA443 Women's and girls' tailored outerwear	5,604						
PA313 Iron castings, etc.	PA444 Overalls and men's shirts, underwear, etc.							
PA321 Aluminium and aluminium alloys	PA445 Dresses, lingerie, infants' wear, etc. PA446 Hats, caps and millinery							
PA322 Copper, brass and other copper alloys PA323 Miscellaneous base metals	PA449.1 Corsets and miscellaneous dress industries							
PA331 Agricultural machinery (except tractors)	PA449.2 Gloves	TSP"Ca						
PA332 Metal-working machine tools PA333.1 Pumps	PA450 Footwear PA461.1 Refractory goods	169 06						
PA333.2 Valves	PA461.2 Building bricks and non-refractory goods	109						
PA333.3 Compressors and fluid power equipment	PA462 Pottery PA463 Glass						For southern but south	
PA334 Industrial engines PA335 Textile machinery and accessories	PA464 Cement	1 0000						
PA336 Construction and earth-moving equipment	PA469.1 Abrasives PA469.2 Miscellaneous building materials and mineral products	- Z						
PA337 Mechanical handling equipment PA338 Office machinery	PA409.2 Miscellaheous building materials and mineral products PA471 Timber	Elena 3						
PA339.1 Mining machinery	PA472 Furniture and upholstery	LICT	CONTENTS					
PA339.2 Printing, bookbinding and paper goods machinery PA339.3 Refrigerating machinery, space-heating,	PA473 Bedding, etc. PA474 Shop and office fitting	LISTO	F CONTENTS					
ventilating and air-conditioning equipment	PA475 Wooden containers and baskets							
PA339.5 Scales and weighing machinery and portable	PA479 Miscellaneous wood and cork manufactures PA481 Paper and board	118.7 -						
power tools PA339.7 Food and drink processing machinery and	PA482.1 Cardboard boxes, cartons and fibre-board packing cases		e Title				Page	
packaging and bottling machinery	PA482.2 Packaging products of paper and associated materials	No						
PA339.9 Miscellaneous (non-electrical) machinery PA341 Industrial (including process) plant and steelwork	PA483 Manufactured stationery PA484.1 Wallcoverings	1	Output and	costs, 1973	-1976	and the second second second second	2	
PA342 Ordnance and small arms	PA484.2 Miscellaneous manufactures of paper and board	2	Capital ex	penditure, 1	973-1976		esta to established ferrore 3	
PA349.1 Ball, roller, plain and other bearings	PA485 Printing, publishing of newspapers and periodicals PA489 General printing and publishing		and a second second second	a same		1076	and sector and sector ball as	
PA349.2 Precision chains and other mechanical engineering PA351 Photographic and document copying equipment	PA489 General printing and publishing PA491 Rubber	3	Stocks and	work in pro	gress, 1975-	19/6	with sales Sir boods preduced.	
PA352 Watches and clocks	PA492 Linoleum, plastics floor-covering, leathercloth, etc.	4	Analysis o	of establishm	ents by size	, 1976	4-5	
PA353 Surgical instruments and appliances PA354 Scientific and industrial instruments and systems	PA493 Brushes and brooms PA494.1 Toys, games and children's carriages	5	Regional d	listribution	of employment	t, net capital ex	penditure.	
PA354 Scientific and industrial instruments and systems PA361 Electrical machinery	PA494.3 Sports equipment		net output	and gross v	alue added a	t factor cost, 19	76 6	
PA362 Insulated wires and cables	PA495 Miscellaneous stationers' goods	6	and a strategie to	and CL Ditter				
PA363 Telegraph and telephone apparatus and equipment	PA496 Plastics products PA499.1 Musical instruments	>	received f	rom United K	ingdom estab	h periods covered lishments employi	ng 20 or more	
PA364 Radio and electronic components	PA499.2 Miscellaneous manufacturing industries	100	persons, 1	976		Satisfactory cut	7	
PA365.1 Gramophone records and tape recordings	PA500 Construction PA601 Gas	7	Percentage	analysis of	employees,	by full and part-	time employment	
PA365.2 Broadcast receiving and sound reproducing equipment	PA602 Electricity		and sex, 1	1976			thousand, 1221 thousand,	
PA366 Electronic computers	PA603 Water supply	>						
PA367 Radio, radar and electronic capital goods PA368 Electrical appliances primarily for domestic use	PA1002 Summary tables							

PA367 PA368 Radio, rad Electrical appliances primarily for domestic use

(ii)

1

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

Alaum (tat manipage "Do and 202 fa the Testiles at the Industry Includer	Unit	1973	1974	1975	1976
Enterprises	Number	41	43	46	49
Establishments	II	56	65	69	77
Sales of goods produced Receipts for work done and industrial services rendered	£ thousand "	160,929 (b)	190,573 (b)	213,963 (b)	238,838 50,149
Capital goods produced for establishments' own use	II	766	(b)	(b)	2,277
Non-industrial services rendered	al north arts of	641	840	855	2,652
Goods merchanted or factored	a a magaza data	11,477	14,287	18,660	11,806
Total sales and work done (c)	m	173,812	205,699	233,479	305,722
Increase during the year, work in progress and goods on hand for sale	H	5,417	4,468	20,138	7,467
Gross output		179,229	210,167	253,617	313, 189
Purchases of materials for use in production, and packaging and fuel	n	67,496	79,184	121,261	141,920
Purchases of goods for merchanting or factoring	n	8,970	11,537	17,893	9,623
Increase during the year, stocks of materials, stores and fuel	н	742	13,040	30,960	9,287
Cost of industrial services received	H	6,482	6,607	9,809	8,447
Net output	H	97,024	125,878	135,614	162,486
Total employment (d)	Thousands	40.3	39.2	41.2	42.7
Net output per head	£	2,411	3,208	3,291	3,804
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	228	758	720	1,138
Commercial insurance premiums	H	287	332	395	491
Bank charges	H	65	64	82	109
Other non-industrial services (g)	П	1,782	2,675	3,487	5,015
Licensing of motor vehicles		20	15	27	· 36
Rates, excluding water rates		206	468	994	1,344
Gross value added at factor cost	n	94,435	121,567	129,908	154,354
Gross value added at factor cost per head	£	2,346	3,099	3,152	3,614

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 96 per cent of employment within the industry.

(b) Included with sales of goods produced.

Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ 384. (c)

(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 £822 thousand.

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

2

C +b - was and

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

	 			£ thousand
	1973	1974	1975	1976
Land and buildings	and the state	nygyyaj qa ta ar tost	Table of the second	The second of the
New building work	789	1,525	2,950	1,904
Land and existing buildings				
Acquisitions	79	296	200	207
Disposals	321	14	24	19
Vehicles				
Acquisitions				
Motor cars	139	153) 418	1,389
Other vehicles	65	321) 410	1,09
Disposals				
Motor cars	51	50)) 90	995
Other vehicles	12	5) 90	335
Plant and machinery				
Acquisitions	1,262	2,343	4,808	7,231
Disposals	145	134	139	184
Total net capital expenditure	1,804	4,436	8,124	9,534

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 96 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)

			L	Thousand
1973	1974	1975	197	76
ites enland	Incr	ease		Value at of year
742	13,040	30,960	9,287	98,545
5,412	4,261	19,823	7,091	49,338
	207	315	376	1,297
6,159	17,508	51,098	16,754	149,180
	742 5,412 5	Incr 742 13,040 5,412 4,261 5 207	Increase 742 13,040 30,960 5,412 4,261 19,823 5 207 315	1973 1974 1975 197 Increase end 742 13,040 30,960 9,287 5,412 4,261 19,823 7,091 5 207 315 376

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 96 per cent of employment within the industry. (a)

3

TABLE 4

PA 384

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

4

roup b)	Estab- lish- ments	Enter- prises (c)	Employme	nt		Wages and s	salaries(Total sales and work done (g)	Gross output	Net output		Gross value added at factor cost	e	Net capital expenditure (h)	Total stocks and work in progress at end of year
			Total (d)	Opera- tives	Others (e)	Operatives	gript tua	Others(e)	tan lormat as a percent- age of total							
						Total	per head	Total per head			Total	per head	Total	pe r head		
an and a start of the second	Number	Number	Number	Number	Number	£ thousand	£	£ thousand £	£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousan
1-10	32	20	149)						August Sectors							
11-19	9	7	128	697	289	1 020	2 627	077 7 760	e Octobe							
20-49	11	11 24	339	097	209	1,828	2,623	973 3,368	10,242	10,329	4,716	4,688	(j)	(j)	252	2,132
50-99	6	6) 390)		i i				-							
100-199	4	4	564	304	260	699	2,298	774 2,979	5,209	5,293	2,471	4,382	6,360(j)	4,051(j)) 66	1,515
200 and over	15	12	41,143	33,832	7,308	103,058		27,914 3,820	290,270			3,775				
				145		6,422 ba	607	Disposals	290,270	297,568	155,298	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	147,994	3,597	9,216	145,533
									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
									and the the budg							
									Para cantago a							
tal	77	49	42,713	34,833	7,857	105,585	3,031	29,662 3,775	305,722	313,189	162,486	3,804	154,354	3,614	9,534	149,180

5

PA 384

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	(b)(c)	employment received fr more than 8	gross value in the region om establishm O per cent of in the region	from returns ents with their
					Net output	Gross value added at factor cost	Employment as a percent- age of total regional
							employment in the industry
baseport 1	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	thoesand
Standard regions of England	5						
North	*	*	*	*	*	*	*
Yorkshire and Humberside	7.3	17.2	1,800	18.9	6,505	5,749	17.5
East Midlands	*	*	*	×	. *	• *	*
East Anglia	-	-	-	-	-	-	-
South East	*	*	*	*	*	*	*
South West	3.4	8.0	377	4.0	*	*	*
West Midlands	1.1	2.5	209	2.2	155, *38 - 501	3.0'sa *	* 0F2(0E
North West	*	*	*	*	*	*	*
England	38.8	90.8	8,696	91.2	27,705	25,094	12.6
Wales	1.1	2.7	186	2.0	1,354	1,231	25.5
Scotland .	*	*	*	*	*	*	*
Great Britain	*	¥	*	×	*	*	×
Northern Ireland	*	*	*	*	*	*	*
Unallocated (e)	-	-	-	-	123,823	118,695	-
United Kingdom (b)	42.7	100.0	9,534	100.0	162,486	154,354	

(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.

(d) 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.

6

TABLE 6

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 employe				
au the Venites Vingdom S	per cent	per cent	GENERAL INFORMATION			
1976 April (a)	0.0	0.0				
Мау	0.0	0.0				
June	0.0	0.0				
THE COLOR OF LAR	7.7 the inclusive	0.2				
July August	11.5	2.0				
September	7.7	0.6				
October	3.8	0.5				
November	3.8	0.1				
December	38.5	93.6				
1977 January	3.8	0.2				
February	0.0	0.0				
March (b)	23.1	2.9				

(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
restructions of the second sec	per cent	per cent	per cent
Male	95	real the state for	95
Female	inges inquiries" in § tatisti	1	5
	a sati destas cento dificenzi della de		a the state and the set binders
The second states	STREAM STREAM PROVIDENT AND STREAM	and the second second second	Source: Department of Employment

Source: Department of Employ

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

> Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 597332 K5 Cdf 90 5/79

> > 7

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 undertakings

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
- 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 .

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 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, ments.

Statistical units

as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turn-over, capital formation. Usually the principal The inquiries provide a major source of information activity. If, however, the required range of data ment from the annual censuses of employment. can be provided for each activity, each is taken Establishments with 20 or more employees are activities at these addresses (termed local smaller establishments and enterprises, but there units). Separate figures are obtained of employment and net capital expenditure at each ment, output, net capital expenditure). unit in order to compile regional tables. Efforts are made by the Business Statistics Office Coverage

countries of the United Kingdom. Further information about the statistical unit the major part of the establishment's sales. appeared in an article "The statistical unit in

business inquiries" in Statistical News No.13 May Regions 1971.

returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of accounts. departments are treated as sales and respondents are asked to value them as far as possible as li sold to an Independent purchaser. Where separate) accounts are not kept they are asked to Include Average number employed details of all these activities in their return. Establishments were required to state the number 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 o

Industrial classification The United Kingdom Standard Industrial production (especially the enterprise analyses of Business Monitor PA1002) related establishments are combined. For these purposes an enterprise roup may be defined as a business consisting of ither 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 nsuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of industry and trade as it exists in the United 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 establish-

THE REGISTER

The statistical unit for the purpose of the Census The register permits a questionnaire to be sent is the establishment which is defined in the SIC direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it

over, capital formation. Usually the principal the inquiries provide a major source of information activities carried on in an establishment fall for keeping the register continuously up-to-date 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 process where an establishment does not make a return. are carried on at one address, but normally these cases where an establishment does not make a return are not classified separately and the whole to these inquiries the employment data are based on establishment is classified according to the main information provided by the Department of Employ-

to constitute a separate establishment. Sometimes included in the censuses each year and the inform-activities which are conducted as a single ation they supply to the census is supplemented by business are carried on at a number of addresses, the returns that those with 25 or more employees Where this is so, businesses are asked to provide provide to the quarterly inquiries. Information the full range of separate information in respect about establishments with fewer than 20 employees of each address; whether or not the activities are in most industries is less securely based, but different. Their activities may, however, be increasing use has been made of data on these integrated to such an extent that they constitute small establishments supplied by the Department of a single establishment. In the latter case the Employment. One benefit of using this information establishment is defined to cover the combined is an improvement in the estimates of the number of

to ensure, by negotiating with respondents, that A return was required in the 1976 Census from each the return from an establishment does not cover establishment with 20 or more employees. Each local units or addresses in more than one of the establishment is classified to an industry, as defined in the SIC, whose principal products form

The regions defined in Table 5 take account of the Establishments are asked to exclude from their boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in , for which they keep a separate set of April 1974 in England and Wales and May 1975 in Transfers of goods produced to such Scotland.

TERMS USED IN THE CENSUS REPORT

Particulars relating to head offices mainly of persons on the payroll on average during the engaged in the administration of the productio 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)

Averages could be calculated from the 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 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 They include operatives employed in earners. power stations, transport (including roundsmen), inspectors, maintenance workers and canteens. 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.

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 sale.

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 non-Industrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premlums, 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,

establishment when working on goods supplied h customers; and of food, etc. for any canteen covered by the establishment's return. Transfere of goods to the establishment from another depart. of timber. ment of the same firm not covered by the industrial services rendered include repairs and establishment's return are included at a cost maintenance, installation work, and technical corresponding to the estimated selling value research and studies for other organisations. corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's on 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. goods for merchanting or factoring have bee collected separately since 1973. The values shown Non-industrial services rendered exclude VAT. They include, in addition to the This includes rents received for commercial and actual purchase price, the value of packaging industrial buildings, amounts charged for hiring material charged to the establishment. The value out plant, machinery and other goods and amounts of returned goods or packaging material returned charged to other organisations for the provision of to suppliers and any trade discounts are excluded, transport. It also includes amounts received for Materials purchased duty-paid are included at their the right to use patents, trademarks, copyrights duty-paid value, less any drawback, rebate, etc. etc., manufacturing and quarrying rights and tech-The cost of transport is included only if it is nical "know-how" and revenue from such staff included with the purchase price in the firm's facilities as canteens. accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the Goods 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 a 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

goods were manufactured. Goods produced in on establishment and transferred either to ancillar Wages and salaries departments not engaged in production for which These are amounts paid during the year to there are separate accounts, or to anothe operatives and to administrative, technical and establishment of the same firm not covered by the clerical employees. Payments to working return, are treated as sales by the producin proprietors, whether called salaries or not, are establishment and valued as far as possible as excluded. The values shown include all overtime they had been sold to an independent purchaser Payments, bonuses and commissions, whether paid can be been formed to whether payments are not and payments. they had been sold to an independent purchase payments, bonuses and commissions, whether paid Goods transferred to wholesale or retail sellin regularly or not, and no deduction is made for organisations, for which separate accounts a income tax, insurances, contributory pensions etc. The value on the same basis. The value of redundancy payments less any amounts value" defined as the amount (excluding value the value of any payments in kind, travelling added tax) charged to customers whether on a expenses etc. is excluded. added tax) charged to customers whether on a complete erc. Is excluded. ex-works or delivered basis, after any tradi-discounts and agents' commissions have bee Remuneration paid to outworkers deducted. The cost of packing materials les The remuneration paid to outworkers (i.e. persons allowance for returnable cases is included. employed by the establishment who do their work in industries where products attract Excise Duty # their own homes) is generally on a piece-work value stated is usually inclusive of duty if sold basis. Only amounts paid to outworkers whose names duty-paid and exclusive of duty if sold in bond appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are exported.

Work done and industrial services rendered

(v)

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 printer materials of fuel electricity and water matter; of fuel, electricity and water; of and textile finishing; within printing and pub-materials to be used by the establishment or given lishing - preparatory work on type-setting, block materials to be used by the establishment or given ishing - preparatory work on type-setting, block out to other establishments for the production of making and binding. Work done is also significant machinery or other capital items for the establish in the electrical machinery and heavy engineering lishment's own use; of materials for use by the industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing

Stocks and work in progress

Values are given of stocks of goods on hand for Sales of goods produced Values are given of stocks of goods on hand for Sales for the purposes of the annual censuse sale and of materials, stores and fuel, at the end means deliveries on sale of goods made by estab of the year of return and of the change during the lishments in the United Kingdom covered by the year, including any stocks of goods held for inquiry. Sales of goods made for these estab merchanting or factoring. Work in progress is lishments by outworkers or by other establishments defined as materials which have been partially from materials given out to them and sales o processed by the establishment but which are not waste products are included. New building wor usually sold or transferred to another estab-and machinery or other capital items produced bishment without further processing. The values establishments for hiring out or leasing ar include the cost of materials consumed and labour regarded as sales, the value included in the establishments profits. Progress payments made to sub-capital asset accounts. Forward sales and cantee contractors are excluded and progress payments takings are excluded. All sales in the period o received from other organisations are not the inquiry are included irrespective of when th deducted. goods were manufactured. Goods produced in on

mounts paid to outworkers by sub-contractors are xcluded.

Work done and industrial services rendered Figures for work done represent the amount charge Employers' insurance and welfare contributions for work carried out on materials supplied by This item includes employers' contributions to customer and include repair work. Within certa 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 included.

Crown copyright 1979

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB 13a Castle Street, Edinburgh EH2 3AR 41 The Hayes, Cardiff CF1 IJW Brazennose Street, Manchester M60 8AS Southey House, Wine Street, Bristol BS1 2BQ 258 Broad Street, Birmingham B1 2HE 80 Chichester Street, Belfast BT1 4JY

Government publications are also available through booksellers

Extracts from this publication may be reproduced provided the source is acknowledged. Proposals for complete reproduction should be addressed to the Librarian, Business Statistics Office, Newport, Gwent NPT 1XG