

1977



HMSO

Business Statistics Office

Business Monitor

Report on the Census of Production

Building bricks and nonrefractory goods



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

PA461.2 Business Monitor A publication of the Government Statistical Service

1977

Building bricks and nonrefractory goods

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

Report on the **Census of Production**

London: Her Majesty's Stationery Office

List of Industry Reports, etc.

PA1001	Introductory notes
PA101	Coal mining
PA102	Stone and slate quarrying and mining
PA103 PA104	Chalk, clay, sand and gravel extraction Petroleum and natural gas
PA109	Miscellaneous mining and quarrying
PA211	Grain milling
PA212	Bread and flour confectionery
PA213	Biscuits
PA214 PA215	Bacon curing, meat and fish products Milk and milk products
PA216	Sugar
PA217	Cocoa, chocolate and sugar confectionery
PA218	Fruit and vegetable products
PA219	Animal and poultry foods
PA221 PA229.1	Vegetable and animal oils and fats Margarine
PA229.2	
PA231	Brewing and malting
PA232	Soft drinks
PA239.1	Spirit distilling and compounding
PA239.2 PA240	British wines, cider and perry Tobacco
PA261	Coke ovens and manufactured fuel
PA262	Mineral oil refining
PA263	Lubricating oils and greases
PA271.1	Inorganic chemicals
PA271.2 PA271.3	Organic chemicals Miscellaneous chemicals
PA271.3	Pharmaceutical chemicals and preparations
PA273	Toilet preparations
PA274	Paint
PA275	Soap and detergents
PA276	Synthetic resins and plastics materials and
PA277	synthetic rubber Dyestuffs and pigments
PA278	Fertilizers
	Polishes
	Formulated adhesives, gelatine, etc.
PA279.3 PA279.4	Explosives and fireworks Formulated pesticides, etc.
PA279.4	Printing ink
PA279.6	Surgical bandages, etc.
PA279.7	Photographic chemical materials
PA311	Iron and steel (general)
PA312	Steel tubes
PA313 PA321	Iron castings, etc. Aluminium and aluminium alloys
PA322	Copper, brass and other copper alloys
PA323	Miscellaneous base metals
PA331	Agricultural machinery (except tractors)
PA332	Metal-working machine tools
PA333.1 PA333.2	Pumps Valves
PA333.3	Compressors and fluid power equipment
PA334	Industrial engines
PA335	Textile machinery and accessories
PA336	Construction and earth-moving equipment
PA337 PA338	Mechanical handling equipment Office machinery
PA339.1	Mining machinery
	Printing, bookbinding and paper goods machinery
PA339.3	Refrigerating machinery, space-heating,
DA 220 F	ventilating and air-conditioning equipment
PA339.5	Scales and weighing machinery and portable
PA339.7	power tools Food and drink processing machinery and
171000.7	packaging and bottling machinery
PA339.9	Miscellaneous (non-electrical) machinery
PA341	Industrial (including process) plant and steelwork
PA342 PA349.1	Ordnance and small arms
PA349.1 PA349.2	Ball, roller, plain and other bearings Precision chains and other mechanical engineering
PA351	Photographic and document copying equipment
PA352	Watches and clocks
PA353	Surgical instruments and appliances
PA354 PA361	Scientific and industrial instruments and systems
PA362	Electrical machinery Insulated wires and cables
PA363	Telegraph and telephone apparatus and
	equipment
PA364	Radio and electronic components
PA365.1 PA365.2	Gramophone records and tape recordings
TA305.2	Broadcast receiving and sound reproducing equipment
PA366	Electronic computers
PA367	Radio, radar and electronic capital goods
PA368	Electrical appliances primarily for domestic use

PA369.1	Electrical equipment for motor vehicles, cycles and aircraft
PA369.2 PA369.4	Primary and secondary batteries Electric lamps, electric light fittings, wiring
PA370	accessories, etc. Shipbuilding and marine engineering
PA380	Wheeled tractor manufacturing
PA381.1 PA381.2	Motor vehicle manufacturing Trailers, caravans and freight containers
PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA383 PA384	Aerospace equipment manufacturing and repairing Locomotives, railway track equipment, railway carriages
PA390	wagons and trams Engineers' small tools and gauges
PA391	Hand tools and implements
PA392 PA393	Cutlery, spoons, forks and plated tableware, etc.
PA394	Bolts, nuts, screws, rivets, etc. Wire and wire manufactures
PA395 PA396	Cans and metal boxes Jewellery and precious metals
PA399.1	Metal furniture
PA399.5 PA399.6	Drop forgings, etc. Metal hollow-ware
PA399.8	Miscellaneous metal manufacture
PA411 PA412	Production of man-made fibres Spinning and doubling on the cotton and flax systems
PA412 PA413	Weaving of cotton, linen and man-made fibres
PA414	Woollen and worsted
PA415 PA416	Jute Rope, twine and net
PA417.1	
PA417.2 PA418	Warp knitting Lace
PA419	Carpets Narrow fabrics
PA421 PA422.1	Household textiles and handkerchiefs
PA422.2 PA423	Canvas goods and sacks and other made-up textiles Textile finishing
PA429.1	Asbestos
PA429.2 PA431	Miscellaneous textile industries Leather (tanning and dressing) and fellmongery
PA432	Leather goods
PA433 PA441	Fur Weatherproof outerwear
PA442	Men's and boys' tailored outerwear
PA443 PA444	Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc.
PA445	Dresses, lingerie, infants' wear, etc.
PA446 PA449.1	Hats, caps and millinery Corsets and miscellaneous dress industries
PA449.2 PA450	Gloves Footwear
PA461.1	
PA461.2 PA462	Building bricks and non-refractory goods Pottery
PA463	Glass
PA464 PA469.1	Cement Abrasives
PA469.2	Miscellaneous building materials and mineral products
PA471 PA472	Timber Furniture and upholstery
PA473	Bedding, etc.
PA474 PA475	Shop and office fitting Wooden containers and baskets
PA479 PA481	Miscellaneous wood and cork manufactures Paper and board
PA482.1	Cardboard boxes, cartons and fibre-board packing cases
PA482.2 PA483	Packaging products of paper and associated materials Manufactured stationery
PA484.1	Wallcoverings
PA484.2 PA485	Miscellaneous manufactures of paper and board Printing, publishing of newspapers and periodicals
PA489	General printing and publishing
PA491 PA492	Rubber Linoleum, plastics floor-covering, leathercloth, etc.
PA493	Brushes and brooms
PA494.1 PA494.3	Toys, games and children's carriages Sports equipment
PA495 PA496	Miscellaneous stationers' goods Plastics products
PA499.1	Musical instruments
PA499.2 PA500	Miscellaneous manufacturing industries Construction
PA601	Gas
PA602 PA603	Electricity Water supply
PA1002	

PA 461.2 BUILDING BRICKS AND NON REFRACTORY GOODS

The information in this report relates to establishments classified to the Building bricks and non-refractory goods industry, minimum list heading 461.2 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing building bricks, clay flooring and roofing tiles, chimney pots, stoneware pipes and conduits, fireclay sanitary ware and other similar clay products. Glazed earthenware tiles and concrete and sandlime bricks 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).

LIST OF CONT	TENTS						
LIST OF CON	TENTS						
Table	Title						Page
No							
1	Output	and costs, 197	'3—1977				2
2	Capital	expenditure, 1	973-1977				3
3	Stocks	and work in pr	ogress, 1973-1977	7			3
4	Analysi	s of establishm	nents by size, 1977				4—5
5		al distribution or cost, 1977	of employment, ne	t capital expend	liture, net output	and gross val	ue added 6
6	Percent Kingdo	age analysis of m establishmer	twelve-month peri nts employing 20 o	ods covered by i r more persons,	returns received f 1977	rom United	7
7			employees, by full			sex, 1977	7
8		ng ratios, 1977					8
	e por ati						0

1

TABLE 1

Output and costs, 1973–1977 All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976	1977
Enterprises	Number	224	228	211	203	194
Establishments	<i></i>	329	335	304	285	280
Sales of goods produced	£ thousand	197,343	171,476	218,349	252,928	265,141
Receipts for work done and industrial ervices rendered	"	(b)	(b)	(b)	290	352
Capital goods produced for establishments' own use	"	1,398	1,851	1,563	1,788	581
Non-industrial services rendered	"	680	771	831	1,284	874
Goods merchanted or factored	"	9,151	9,482	12,663	15,743	6,715
Total sales and work done (c)	"	208,572	183,579	233,405	272,034	273,663
ncrease during the year, work in rogress and goods on hand for sale	"	2,100	13,548	-1,087	5,745	12,704
Gross output	"	210,672	197,127	232,319	277,779	286,367
Purchases of materials for use in pro- luction, and packaging and fuel		55,407	59,216	61,081	79,993	84,727
urchases of goods for merchanting or actoring	"	6,780	7,348	10,944	11,802	5,864
ncrease during the year, stocks of naterials, stores and fuel	"	1,465	1,852	1,264	907	2,718
cost of industrial services received		6,738	7,921	6,436	8,150	7,580
Net output		143,212	124,495	155,122	178,742	190,914
otal employment (d)	Thousands	33.2	31.0	26.4	26.0	25.5
Net output per head	£	4,311	4,020	5,876	6,868	7,495
ayments for non-industrial services						
Hire of vehicles, plant and machinery	£ thousand	934	1,370	1,749	1,358	1,727
Rents of industrial and commercial buildings	"	(e)	(e)	(e)	424	505
Commercial insurance premiums	"	1,020	1,145	1,317	1,481	1,951
Bank charges	"	100	159	289	333	186
Other non-industrial services	"	19,668	16,216	20,436	23,894	25,992
censing of motor vehicles	"	321	321	374	446	486
ates, excluding water rates	"	1,962	2,383	2,548	2,649	3,113
Gross value added at factor cost	"	119,208	102,900	128,408	148,157	156,955
Gross value added at factor cost per head	£	3,588	3,323	4,864	5,692	6,162

Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 persons. Satisfactory returns accounted for 83 per cent of employment within the industry. (a)

(b) Included in sales of goods produced.

(c) Details of manufacturers' quarterly sales of principal products are published regularly in Business Monitor PQ461.2.

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

For 1973-1975 rents of industrial and commercial buildings were not recorded separately, but included in hire of vehicles, plant and (e) machinery.

TABLE 2

PA461.2

Capital expenditure, 1973–1977 All United Kingdom establishments classified to the industry (a)(b)

			and the same in the second	Long the subscreek	£ thousand
	1973	1974	1975	1976	1977
Land and buildings				- Internet	
New building work	4,440	3,405	3,101	2,303	3,255
Land and existing buildings					
Acquisitions	1,481	1,051	527	725	309
Disposals	1,199	1,160	1,009	593	520
/ehicles					
Acquisitions	2,018	1,408	1,630	2,487	2,615
Disposals	410	456	316	373	404
lant and machinery					
Acquisitions	11,766	14,523	13,160	14,321	16,931
Disposals	174	799	233	250	298
Total net capital expenditure	17,923	17,972	16,861	18,620	21,887

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

TABLE 3

Stocks and work in progress, 1973–1977 All United Kingdom establishments classified to the industry (a)

						£ thousand
	1973	1974	1975	1976		1977
	125 910.014	ART. TAPTING	Increase	⁰¹ ,871	ear a loan a	Value at end of year
Materials; stores and fuel	1,465	1,852	1,264	907	2,718	13,399
Work in progress	168	686	930 •	773	1,028	4,954
Goods on hand for sale	1,932	12,862	-2,017	4,972	11,676	30,709
Total	3,565	15,400	177	6,653	15,422	49,062
				DEGREGATION OF	State Internet	

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

PA461.2

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

Analysis of establishments by size, 1977 All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employme	Employment			Wages and salaries (f)			
			Total (d)	Opera- tives	Others (e)	Operatives		Others (e)		
			(0)	11003		Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1-10	73	72	397)							
11-19	46	43) 690)							
20-49	77	53) 2,601)	5,298	862	17,709	3,343	3,276	3,801	
50—99	39	30	2,629)							
100—199	27	21	3,945	3,235	706	10,958	3,387	2,694	3,816	
200—299	7	7	1,722	1,445	270	4,617	3,195	833	3,084	
300—399	4	4	1,428	1,170	258	4,390	3,752	1,024	3,969	
400 and over	7	6	12,059	10,124	1,935	36,497	3,605	8,157	4,216	

74,171 3,487 15,984 3,965 Total 280 194 25,471 21,272 4,031

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

4

(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.

PA461.2

n

Total sales and work done (g)	Gross outpu	ut î	Net output			Gross value added at factor cost		Net capital expenditure (h)	Total sto and wor progress end of y
		-	Total	per head	-	Total	per head		
£ thousand	£ thousand		£ thousand	£	-	£ thousand	£	£ thousand	£ thousa
72,235	75,562		44,947	7,115		(j)	(j)	4,663	13,209
								*	
49,972	53,784		31,963	8,102		61,967(j)	6,038(j)	5,712	10,717
18,970	19,393		11,812	6,859		9,508	5,521	1,359	3,286
14,500	15,124		10,035	7,027		8,424	5,899	394	3,155
117,986	122,504		92,158	7,642		77,057	6,390	9,759	18,695
273,663	286,367		190,914	7,495		156,955	6,162	21,887	49,062
	st of employers red for the indu				ance, per	isions and welfare	schemes and the	e running costs of c	anteens, is
(g) Sales of industr	f goods produc ial and non-ind	ed, capit ustrial se	al goods mar ervices rende	nufactured, red and mer	buildings chanted	constructed by e goods.	stablishments fo	or their own use, wo	rk done,
(h) New bu	uilding work plu		sitions less di	isposals of la	nd and e	visting buildings	vehicles and pla	nt and machinery.	

PA461.2

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1977 All United Kingdom establishments classified to the industry (a)

Area	Total employment	(b)	Net capital expenditure	(c)	Net output (d)	Gross value added at factor cost (d)	Gross value added at factor cost returned by establishments with 80 per cent or more of their employment	
							in the region proportion gross value a factor cost i region	n as a of total added at
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	percentage	
Standard regions of England								
North	1.3	5.0	636	2.9	9,146	7,318	64.5	
Yorkshire and Humberside	3.3	13.0	2,212	10.1	28,365	23,897	87.9	
East Midlands	3.0	11.8	2,407	11.0	23,753	19,601	62.2	
East Anglia	*	*	*	*	*	*	*	
South East	7.3	28.6	5,350	24.4	58,431	48,634	26.6	
South West	*	*	*	*	*	*	*	
West Midlands	3.1	12.1	4,414	20.2	20,072	16,478	58.1	
North West	2.2	8.7	1,369	6.3	15,248	12,201	57.7	
England	22.9	90.0	17,371	79.4	176,419	145,716	/	
Wales	0.7	2.7	449	2.1	4,362	3,341	84.5	
Scotland	1.6	6.2	1,334	6.1	7,868	5,865	72.7	
Great Britain	25.2	98.9	19,154	87.5	188,649	154,922	/	
Northern Ireland	0.3	1.2	2,733	12.5	2,265	2,033	84.0	
United Kingdom	25.5	100.0	21,887	100.0	190,914	156,955	/	

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

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

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

Where a census return covered addresses in two or more regions, an estimate of the net output attributable to each address was made by assuming that net output was proportionate to employment. An estimate for each region was obtained by aggregating estimates of net output for addresses located in that region. Gross value added at factor cost is treated similarly. (d)

TABLE 6

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1977

Accounting year ended		Percentage of total returns received	Percentage of total number employed		
	ESS.	per cent	per cent		
1977	April (a)	0.8	1.3		
	Мау	0.8	0.2		
	June	4.1	2.8		
	July	0.8	0.2		
	August	0.0	0.0		
	September	7.3	5.0		
	October	3.2	5.2		
	November	1.6	0.8		
	December	51.2	70.7		
1978	January	0.0	0.0		
	February	0.8	0.1		
	March (b)	29.3	13.7		

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1978.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1977(a) Bricks, fireclay and refractory goods industries, minimum list heading 461

Sex	Full-time	Part-ti
	per cent	per cer
Male	89	1
Female	7	2

The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom in minimum list heading 461 at mid-June, 1976 because 1977 information is not yet available. In the 1977 Census of Production the employment of the Building bricks and non-refractory goods industry represented 65 per cent of the employment of minimum list heading 461 as a whole. (a)

me	All employees					
nt	per cent					
	90					
	10					

Source: Department of Employment

TABLE 8

PA461.2

Operating ratios, 1977 All United Kingdom establishments classified to the industry (a)

	Unit	1977
Gross output per head	£	11,243
let output per head	£	7,495
iross value added per head	£	6,162
Kalina and	%	EE MIL
ross value added as a percentage of gross output	%	55
Ratio of gross output to stocks		5.8
lages and salaries as a percentage of gross value added	%	57
atio of operatives to administrative, technical and clerical nployees		5.3
ages and salaries per operative	£	3,487
lages and salaries per administrative, technical and clerical	0	
mployee	£	3,965
et capital expenditure per head	£	859
et capital expenditure as a percentage of gross value added	%	14

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

Printed for Her Majesty's Stationery Office by Chas Hunt & Co. (Cardiff) Ltd. O.N. 9800832 D.N. 8044872 10/79.

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 - PA 1001 (Introductory Notes) of the Report on the Census of Production, 1977.

GENERAL INFORMATION

Changes made for 1977

The Census for 1977 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 1976.

For the first time in the industry monitors a table has been included on operating ratios, calculated from census measures of output, investment, manpower and labour costs.

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

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 PQ 1000.

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 fail within a single heading of the classification (eg steel making or sugar refining). Typically the establishment embraces all the activities carried on at a single address eg 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 (BSO) 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 eq merchanting, transport, warehousing, for which they keep a separate set of 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 of production (especially the enterprise analyses of Business Monitor PA 1002) 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.

THE 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. New additions to the register are obtained from various sources including Companies Registration Office and the Department of Employment. The 1973 Finance Act allows HM Customs and Excise to pass to the BSO lists of businesses registered for VAT. Information from all these sources is used to improve the register, and where necessary, details are sought directly from new businesses. Units which cease to trade are removed from the live register.

Increasing use of the information obtained from the Department of Employment, HM Customs and Excise and BSO inquiries has led to improvements on the register, which in turn enabled the BSO to produce better estimates, particularly of numbers of smaller establishments and enterprises.

Coverage

A return was required in the 1977 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

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

Average 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)

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 (ie 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 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 obsolescence. 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 rents of industrial and commercial buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom), 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 eg rent of buildings, hire of plant, machinery and vehicles (excluding vehicles hired with drivers), commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport (within the United Kingdom) 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, semimanufactured 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 out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by

customers; and of food, etc for any canteen covered by the establishment's return. Transfers of goods to 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 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 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 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 full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at cif plus duty (if applicable). Leasing, renting 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 canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the 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.

The value shown for sales in the "net selling value" defined as the amount (excluding VAT) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In 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 or exported.

Receipts for work done and industrial services rendered

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of activities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering 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 of timber.

Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishments' own use

This includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

Non-industrial services rendered

This includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and vehicles and other goods and amounts charged to other organisations for the provision of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc, manufacturing and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without

having been subjected to any manufacturing process by the seller.

Stocks and work in progress

Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end 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 sub-contractors are excluded and progress payments received from other organisations are not deducted.

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, commissions and holiday pay, 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 reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc is excluded.

Remuneration paid to outworkers

The remuneration paid to outworkers (ie 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/or earnings related basic contributions under the Social Security Pensions Act, 1975) and 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.

Operating ratios

The operating ratios shown were obtained by dividing the estimate of the industry total for the quantity shown in the numerator by the corresponding estimate for the quantity shown in the denominator. These estimates cover all establishments classified to the industry, including exempted establishments and nonrespondents. Within an industry, it is possible to compare ratios for an individual firm with the ratios shown for the relevant industry. However, it is important to bear in mind that various factors may affect the results - for example, differences in definitions, treatment of depreciation (which is not identified in the census data) and varying practise with regard to stock valuation, may affect comparability in some respects. © Crown copyright 1979

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V6HB 13a Castle Street, Edinburgh EH2 3AR 41 The Hayes, Cardiff CF1 1JW 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