PA390

Business Statistics Office

142 (HA 251)

Business Monitor

1974 & 75

Report on the Censuses of Production

Engineers'small tools and gauges

BRITISH LIBRARY

1 9 JAN1979
OF POLITICAL AND
ECONOMIC SCIENCE

HMSO



A publication of the Government Statistical Service

Special Note for Purchasers

Livery " or rate 100

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

PA390

Business Monitor

A publication of the Government Statistical Service

Report on the Censuses of Production 1974 & 75

Engineers'small tools and gauges

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

Coal mining
Stone and slate quarrying and mining

Chalk, clay, sand and gravel extraction

PA1001

PA101

PA103

PA104

PA211

PA212

PA279 1 Polishes

PA339.1 Mining machinery

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

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

Petroleum and natural gas Shipbuilding and marine engineering Wheeled tractor manufacturing Miscellaneous mining and quarrying PA380 Grain milling
Bread and flour confectionery PA381.1 Motor vehicle manufacturing

PA381.2 Trailers, caravans and freight containers
PA382 Motor cycle, tricycle and pedal cycle manufacturing PA213 Biscuits Bacon curing, meat and fish products PA214 Milk and milk products PA383 Aerospace equipment manufacturing and repairing PA215 Locomotives, railway track equipment, railway carriages, PA216 PA384

Cocoa, chocolate and sugar confectionery wagons and trams PA217 PA390 Fruit and vegetable products Engineers' small tools and gauges PA218 Animal and poultry foods PA301

Hand tools and implements
Cutlery, spoons, forks and plated tableware, etc. PA392 PA221 Vegetable and animal oils and fats PA393 Bolts, nuts, screws, rivets, etc. PA229.1 Margarine

PA229.2 Starch and miscellaneous foods PA394 Wire and wire manufactures PA395 Cans and metal boxes PA231 Brewing and malting

PA396 Jewellery and precious metals PA399.1 Metal furniture PA232 Soft drinks PA239.1 Spirit distilling and compounding PA399.5 Drop forgings, etc. PA239.2 British wines, cider and perry

PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture PA240 Tobacco PA261 Coke ovens and manufactured fuel PA411 Production of man-made fibres Mineral oil refining

PA262 Lubricating oils and greases Spinning and doubling on the cotton and flax systems PA412 Weaving of cotton, linen and man-made fibres PA271 1 Inorganic chemicals

PA414 Woollen and worsted PA271.2 Organic chemicals PA415 PA271.3 Miscellaneous chemicals PA416 Rope, twine and net Pharmaceutical chemicals and preparations

PA272 PA273 Toilet preparations PA417.1 Hosiery and other knitted goods PA417.2 Warp knitting

PA274 PA418 Lace Soap and detergents PA275 Synthetic resins and plastics materials and PA419 Carpets

PA421 Narrow fabrics synthetic rubber PA422.1 Household textiles and handkerchiefs PA277 Dvestuffs and pigments PA422.2 Canvas goods and sacks and other made-up textiles PA423 Textile finishing Fertilizers

PA429.1 Asbestos PA279.2 Formulated adhesives, gelatine, etc. PA429.2 Miscellaneous textile industries PA279.3 Explosives and fireworks

Leather (tanning and dressing) and fellmongery PA431 PA279.4 Formulated pesticides, etc. PA432 Leather goods PA279.5 Printing ink PA433 PA279.6 Surgical bandages, etc.

PA441 Weatherproof outerwear PA279.7 Photographic chemical materials Men's and boys' tailored outerwear Women's and girls' tailored outerwear Iron and steel (general) PA442 PA443 PA312 Steel tubes

PA444 Overalls and men's shirts, underwear, etc. PA313 Iron castings, etc. Aluminium and aluminium alloys PA445 Dresses, lingerie, infants' wear, etc. Hats, caps and millinery PA446 PA322

Copper, brass and other copper alloys PA449.1 Corsets and miscellaneous dress industries PA323 Miscellaneous base metals

PA331 Agricultural machinery (except tractors) PA449.2 Gloves PA450 PA332 Metal-working machine tools Footwear PA461. 1 Refractory goods PA333 Pumps

PA461.2 Building bricks and non-refractory goods Valves Compressors and fluid power equipment PA462 Pottery Industrial engines
Textile machinery and accessories PA463 Glass

PA335 PA464 Cement PA469.1 Abrasives PA336 Construction and earth-moving equipment Mechanical handling equipment PA469.2 Miscellaneous building materials and mineral products PA337 PA471 PA338 Office machinery Timber Furniture and upholstery

PA339.2 Printing, bookbinding and paper goods machinery PA473 Bedding, etc.
Shop and office fittings PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment PA474 PA475 Wooden containers and baskets

PA339.5 Scales and weighing machinery and portable PA479 Miscellaneous wood and cork manufactures PA481 power tools
PA339.7 Food and drink processing machinery and Paper and board PA482.1

Cardboard boxes, cartons and fibre-board packing cases packaging and bottling machinery PA482.2 Packaging products of paper and associated materials PA483 Manufactured stationery

PA339.9 Miscellaneous (non-electrical) machinery
PA341 Industrial (including process) plant and steelwork PA484.1 Wallcoverings PA484.2 Miscellaneous manufactures of paper and board Ordnance and small arms Printing, publishing of newspapers and periodicals PA485

PA349.1 Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering PA489 General printing and publishing Rubber Photographic and document copying equipment PA491 PA492 Linoleum, plastics floor-covering, leathercloth, etc. Watches and clocks
Surgical instruments and appliances PA352 PA353

PA493 Brushes and brooms
PA494.1 Toys, games and children's carriages
PA494.3 Sports equipment PA354 Scientific and industrial instruments and systems PA361 Electrical machinery Insulated wires and cables PA495 Miscellaneous stationers' goods PA496 PA363 Telegraph and telephone apparatus and Plastics products

PA499. 1 Musical instruments PA364 Radio and electronic components PA499.2 Miscellaneous manufacturing industries PA500 Gramophone records and tape recordings Construction

PA365.2 Broadcast receiving and sound reproducing Gas PA602 Flectricity equipment PA603 Electronic computers Water supply Summary tables

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

PA390 ENGINEERS' SMALL TOOLS AND GAUGES

The information in this report relates to establishments classified to the Engineers' small tools and gauges industry, minimum list heading 390 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing engineers' small tools, tool holders and work holders of the types used with metal-working machine tools, and engineers' gauges (other than pressure and vacuum measuring instruments, and optical gauges).

> 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 CONTENTS

Table

ocks and work in progress, 1971-1975 nalysis of establishments by size, 1975	PA390 PA390 PA390 PA390	3
opital expenditure, 1971-1975 ocks and work in progress, 1971-1975 nalysis of establishments by size, 1975	PA390 PA390	3
ocks and work in progress, 1971-1975 nalysis of establishments by size, 1975	PA390	3
nalysis of establishments by size, 1975		
TO CONTROL OF THE PROPERTY OF	PA390	4-!
gional distribution of employment, not conital overandity		0.0775-0.07
greater distribution of employment, het capital expenditure and net output, 1975	PA390	6
	PA390	7
rcentage analysis of employees, by full and part-time employment and sex, 1975	PA390	7
les of principal products of the industry by establishments employing 25 or more rsons, including sales by establishments classified to other industries, 1974-1975	PA390	8
Justry, 1974		
nalysis of returns received, United Kingdom	PA390	9-1
	PA390 1	11
	les of principal products of the industry by establishments employing 25 or more rsons, including sales by establishments classified to other industries, 1974-1975 Inchases by establishments employing 25 or more persons, classified to the dustry, 1974 halysis of returns received, United Kingdom Inchases to other organisations for certain services received by returns received in spect of establishments with 300 or more persons.	rcentage analysis of employees, by full and part-time employment and sex, 1975 PA390 les of principal products of the industry by establishments employing 25 or more rsons, including sales by establishments classified to other industries, 1974-1975 PA390 Principal products of the industry by establishments employing 25 or more rsons, including sales by establishments classified to other industries, 1974-1975 PA390 PA390

PA390 2

Output and costs, 1971-1975

All United Kingdom establishments classified to the industry (a)

	Unit	1971	1972	1973	1974	1975
Enterprises (b)	Number	1,611	1,586	1,748	1,877	1,931
Establishments (b)		1,727	1,696	1,855	1,979	2,020
Sales of goods produced, work done and industrial services rendered (c)	£ thousand			278,239	334,351	367,409
Capital goods produced for establishments' own use (d)		219,070	216,051	526	.234	195
Non-industrial services rendered (e)		J		970	953	942
Goods merchanted or factored		10,970	8,684	10,012	16,952	16,102
Total sales and work done (c)(e)(f)		230,040	224,735	289,747	352,491	384,648
Increase during the year, work in progress and goods on hand for sale		2,031	989	4,409	13,927	13,145
Gross output (c)(e)		232,071	225,724	294,155	366,418	397,793
Purchases of materials for use in production, and packaging and fuel (d)		70,874	67,453	\$1,471	104,770	110,655
Purchases of goods for merchanting or factoring (d)			0.,.00	8,107	14,111	14,444
Increase during the year, stocks of materials, stores and fuel		-262	-1,497	4,194	8,134	814
Cost of industrial services received (g)		5,631	6,279	8,757	12,260	12,560
Net output		155,305	150,495	200,015	243,411	260,949
Total employment (f)(h)	Thousands	66.3	62.9	67.6	68.9	65.4
Net output per head	£	2,342	2,393	2,958	3,535	3,989
Payments for non-industrial services (j)						
Rents, hire of plant and machinery (k)	£ thousand	7		1,714	2,002	2,047
Commercial insurance premiums				1,661	2,005	2,258
Bank charges				257	428	600
Other non-industrial services				7,575	8,739	12,014
Licensing of motor vehicles (I)		} "		102	113	145
Rates, excluding water rates (I)				2,763	3,191	3,920
Gross value added at factor cost				185,941	226,933	239,965
Gross value added at factor cost per head	£			2,750	3,296	3,668

- (a) For 1975, estimates for establishments employing less than 20 persons accounted for 16 per cent of the total employment of the industry. Estimates for unsatisfactory returns and non-response accounted for 23 per cent. For 1974, the comparable figures were 14 per cent and 20 per cent respectively.
- (b) Increase from 1972 to 1973 and from 1973 to 1974 largely attributable to improved estimates of the number of establishments with less than 20 employees. See notes on page (iii).
- (c) The figures for 1971-1972 do not include receipts for repairs and maintenance.
- (d) Not recorded separately for 1971-1972.
- (e) The figures for 1971-1972 do not include revenue from rents for industrial buildings.
- (f) It is estimated that between one-quarter and one-third of the increase in sales between 1972 and 1973 was caused by the inclusion of some larger establishments, mainly on reclassification from other industries; this was also the major cause of the increase in employment between the two years.
- (g) The figures for 1971-1972 exclude the amounts payable for repairs and maintenance.
- (h) Average number employed (full and part-time; see table 7) during the year (including working proprietors) by the establishment.
- (j) Not collected for 1971-1972 except for amounts payable to other organisations for transport of goods within the United Kingdom.
- (k) For 1973, the figures include hire of vehicles.
- (I) Not collected for 1971-1972.

Capital expenditure, 1971-1975

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

	There is a				£ thousand
	1971	1972	1973	1974	1975
Land and buildings	(S) (S) (S)	17. 1			
New building work	1,653	1,811	811	2,245	1,638
Land and existing buildings					
Acquisitions	571	581	729	493	654
Disposals	684	402	935	650	416
Vehicles					
Acquisitions					
Motor cars (c)	7		2,110	2,522] ** 05
Other vehicles (c)	1,768	1,755 {	200	283	2,318
Disposals		The state of			
Motor cars (c)	The state of the s		800	874	7
Other vehicles (c)	749	798 {	43	33	808
Plant and machinery					998,005
Acquisitions	10,758	10,027	12,180	15,287	15,632
Disposals	913	1,268	904	1,111	893
Total net capital expenditure (d)	12,405	11,706	13,347	18,164	18,126

- (a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.
- (b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.
- (c) Not recorded separately for 1971, 1972 and 1975.
- (d) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.

TABLE 3

Stocks and work in progress, 1971-1975

All United Kingdom establishments classified to the industry (a)

		1				£ thousand
	1971	1972	1973	1974	19	75
		Incre	ase			Value at end of year
Materials, stores and fuel	-262	-1,497	4,194	8,134	814	26,818
Work in progress	-1,997	1,501	4,408	9,797	3,266	43,184
Goods on hand for sale	4,028	-512	1	4,130	9,879	33,825
Total	1,769	-508	8,603	22,061	13,960	103,828

⁽a) Including estimates for establishments not making satisfactory returns, non-response, and establishments exempted by virtue of size.

Analysis of establishments by size, 1975
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)		Employment			Wages and	d salaries (e)	
			Total (b)	Opera- tives	Others (d)	Operatives		Others (d)	
			January 1984			Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	1,017	1,009	4,993	1					
11 - 19	377	372	5,447						
20 - 49	375	375	11,422	24,001	6,233	61,249	2,552	19,603	3,145
50 - 99	149	143	9,939						
100 - 199	59	54	8,097	6,268	1,825	15,300	2,441	5,348	2,930
200 - 299	17	17	4,005	3,052	953	7,301	2,392	2,774	2,911
300 - 399	4	4	1,412	1,058	354	2,285	2,160	999	2,823
400 - 499	7	7	3,093	2,006	1,087	4,688	2,337	2,693	2,478
500 - 749	7	7	4,485	3,228	1,257	7,312	2,265	3,415	2,717
750 - 999	3	3	2,427	1,734	693	3,996	2,304	1,907	2,752
1,000 and over	5	5	10,105	7,262	2,843	16,312	2,246	8,162	2,871

Total	2,020	1,931	65,425	48,609	15,245	118,443(j)	2,437	44,901(j)	2,945

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

Total sales and work done (f)	Gross output	Net output	diminimation in	Gross value added at factor cost		Net capital expenditure (g)	Total stocks and work in progress at end of year
Tar. 2 Pers Audinum Landrages Audinor	THE ROLL CONTROL OF THE PARTY O	Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
187,334	187,733	132,007	4,151	(h)	(h)	10,238	24,153
47,595	47,937	33,310	4,114	153,503(h)	3,847(h)	2,041	9,571
24,337	25,388	17,469	4,362	16,309	4,072	910	6,909
7,454	7,978	5,037	3,567	4,586	3,248	215	3,647
20,915	21,995	12,637	4,086	11,427	3,694	1,026	9,233
28,391	30,224	17,322	3,862	15,284	3,408	631	11,007
13,373	14,191	8,036	3,311	7,138	2,941	425	6,450
55,249	62,349	35,131	3,477	31,718	3,139	2,639	32,858

384,648	397,793	260,949	3,989	239,965	3,668	18,126	103,828

(f) Comprises sales of goods produced (including capital goods manufactured, buildings constructed by establishments for their own use),

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

⁽j) The estimates of total wages and salaries for the industry in 1974 were:-

	£'000
Operatives	103,157
Others	37,940

⁽b) Average number employed (full and part-time; see table 7) during the year (including working proprietors) by the establishment.

⁽c) Some enterprises control establishments in more than one size group: the sum of the figures for the size groups therefore exceeds the total for the industry.

⁽d) Administrative, technical and clerical employees.

⁽e) Another important component of labour costs, employers' national insurance contributions, graduated pensions, contributions to other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £16,619 thousand. For 1974, the comparable figure was £12,578 thousand. In addition, remuneration of outworkers on returns received was £57 thousand for 1974, and £55 thousand for 1975,

work done, industrial and non-industrial services rendered, goods merchanted or factored.

⁽h) Gross value added data relates to establishments employing 1-199 persons.

Regional distribution of employment, net capital expenditure and net output, 1975 All United Kingdom establishments classified to the industry

Area	Employmen	t (a)	Net capital e	xpenditure (b)(c	of establishn	and employment in the region nents with more than 80 per employment in the region (d)
					Estimated net output	Average number employed as a percentage of total average number employed in the industry in the region
spinavotrá	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	naise promise americans
Standard regions of England						
North	0.5	0.8	126	0.7	1,167	56.0
Yorkshire and Humberside	15.5	23.6	3,295	18.2	36,012	64.3
East Midlands	3.5	5.3	1,070	5.9	8,693	59.5
East Anglia	0.2	0.3	54	0.3	222	37.2
South East	16.2	24.7	3,911	21.6	26,540	39.8
South West	3.9	6.0	1,073	5.9	11,624	61.0
West Midlands	17.2	26.3	4,939	27.2	29,708	43.2
North West	4.3	6.6	947	5.2	6,860	39.9
	September 1	0 (001,000)				SOL TO STATE COLUMN
England	61.2	93.6	15,413	85.0	120,826	49.6
Wales	0.8	1.2	462	2.6	*	*
Scotland	3.3	5.0	2,225	12.3	11,266	74.2
Great Britain	65.3	99.8	18,099	99.9	*	
Northern Ireland	0.2	0.2	26	0.1	•	*
United Kingdom	65.4	100.0	18,126	100.0	260,949(e)	

(a) Average number employed (full and part-time; see table 7) during the year (including working proprietors).

b) Including estimates for establishments not making satisfactory returns, non-response, and establishments employing less than 20 persons.

(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 attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output at each address covered by a return was proportional to employment at the address. The establishment's residual net output was included in unallocated net output.

(e) Includes £128,130 thousand of unallocated net output of establishments covering addresses in two or more regions, plus estimates for unsatisfactory returns, non-response, and establishments employing less than 20 persons.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975

		per cent	per cent
1975	April (a)	3.2	and accordance of their man 2 1.8
	May	2.6	2.1
	June	7.2	3.7
	July	4.8	2.8
	August	2.6	1.1
	September	9.8	10.3
	October	2.4	3.7
	November	3.7	2.1
	December	37.7	42.4
976	January	2.9	4.3
	February	3.7	2.1
	March (b)	19.4	23.6
		100.0	100.0

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1976.

TABLE 7

TABLE 6

Percentage analysis of employees, by full and part-time employment and sex, 1975(a)

Sex	Full-time	Part-time	All employees	
Som one year	per cent	per cent	per cent	
Male	78	See Joseph Property of Controller	79	
Female	15	6	21	
	93	7	100	

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at June, 1975.

TABLE 9

Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1974-1975

Manufacturers' sales of the principal products of the Engineers' small tools and gauges industry are published regularly in Business Monitor PQ390. Details of sales for 1974 will be found in the monitor for third quarter 1976 published March 1977 and for 1975 in the third quarter issue published January 1978.

Quarterly Business Monitors are available from HMSO by annual subscription.

Purchases by establishments employing 25 or more persons, classified to the industry, 1974 Analysis of returns received, United Kingdom

	Quantity	Value
		£ thousand
Materials for use in production		
Iron and steel in all forms except finished parts, wire and scrap		
Iron castings, pig iron (including refined pig iron) and other irons for remelting	Th tonnes	
Steel products	17.00 mmen	1,904
Ingots, blooms, billets, slabs (including sheet and plate mill slabs and sheet bars)	∫ 0.4	259
Bars and rods (including wire rods), angles, shapes, sections, girders, beams, joists and pillars rolled (not fabricated) including tube rounds and squares	1 ∫48.9	353 14,943
Plates 3mm thick and over	0.9	5,769 400
Sheets under 3mm thick (including electrical sheets)	1	657
Hoop and strip (including tapes of all thicknesses)	[11	1,897
	1.1	945 546
Tinplate and blackplate	{ 0.2	34 40
Forgings (except drop forgings)	£ 1.1	450
Drop forgings	na aldunamina base	172 641
Castings	∫ 0.4	199
Steel tubes and fittings, including welded and seamless tubes, conduits, etc.	∫ ∫ 0.1	111 49
Other steel products except finished parts, wire and scrap	{ ° { 0.4	179 435
Light metals and non-ferrous metals in all forms except finished goods, wire and scrap	L	796
Aluminium and aluminium alloys		
Other light metals and non-ferrous metals and their alloys, e.g. copper, cadmium copper, brass, tungsten metal, carbide cobalt, chrome, nickel, etc.	•	773
Products wholly or mainly of plastics	.	4,234
Components and accessories purchased for incorporation in goods of the firms' own manufacture		386
Tungsten carbide (hard metal) tips Diamonds, diamond powder and precious metal powder Abrasives e.g. grinding wheel discs (not metallic)		1,406 3,968 757
Bolts, nuts, screws, rivets, etc.		1,311
Electrical components and parts thereof (but excluding electrical machinery)		807
Measuring instruments, gauges and control instruments for incorporation in the firms' own products		359
Mechanical engineering products not elsewhere specified e.g. ball and roller bearings, etc.		1,328
Other components not elsewhere specified		
Lubricating oils and greases (i.e. mineral, animal and vegetable)	Th gal 0.4	1,889
ationery	L	99
ckaging materials (including materials for the manufacture of the firms' own packaging)		706
Cartons and boxes wholly or mainly of cardboard (excluding fibreboard packing cases, e.g. for transit)		
Packaging products wholly or mainly of wood, and wood for conversion into packaging products		924
Packaging products of plastics		459
All other packaging materials		129
		194

Payments to other organisations for certain services received, 1974
Returns received in respect of establishments with 300 or more employees

TABLE 10

		Quantity	Value
		and the excludence and an	£ thousand
Fuel and electricity			
Coke (including breeze and manufactued fuel)		THE RESIDENCE STREET, SELECT SEC.	38
Derv fuel and motor	spirit	Th gal { 593 	315 74
Fuel oil		{ 3,601	673 160
Liquefied petroleum	n gases (e.g. propane, butane, etc.)	Th tons 0.7	37 22
Gas		Th therms 6,979	410 121
Electricity		Th KWh 141,204	1,704 469
All other fuels		·	69
Replacement parts and	consumable tools		
Tyres and other spare parts for the firms' own road vehicles			213
Replacement parts for the firms' own plant and machinery		and the second s	1,369
Consumable tools (including gauges)			2,873
Other purchases			5,665
TOTAL VALUE OF PURCHASES (other than for merchanting or factoring)			65,048

	£ thousand
dustrial services received	3,497
Repairs and maintenance to	
Buildings	239
Road goods vehicles	48
Plant and machinery	980
Work done on materials given out	1,713
Other	517
on-industrial services received	4,924
Rent of buildings, hire of plant and machinery	687
Commercial insurance premiums	528
Bank charges	138
Postage, telephone, telegrams, cables and telex	467
Transport	
Road	371
Rail and other means (excluding postal services)	191

Notes

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the censuses is given in a separate Business Monitor—PA 1001 (Introductory Notes) of the Report on the Censuses of Production, 1974 and 1975.

GENERAL INFORMATION

Changes made for 1974 and 1975

The Censuses for 1974 and 1975 are in line with similar inquiries being conducted in other member countries of the European Economic Communities. From 1974, the Census has been extended to include the construction industry. For 1974, establishments with 300 or more employees were asked to provide additional information relating to industrial and non-industrial services. These include amounts paid:

to other organisations for repairs and maintenance to buildings (including those in respect of rented buildings), road goods vehicles, plant, machinery and other capital equipment

for postage, telephones, telegrams, cables and telex

to other organisations for transport by road, rail or other means (excluding postal services)

In a separate inquiry for 1974, larger firms in each industry were also asked to provide a breakdown of the figure of total purchases (other than purchases of goods for merchanting or factoring). See paragraph on "Purchases".

Suppression of information relating to individual undertakings. The Statistics of Trade Act 1947 provides that—"No individual estimates or returns, and no information relating to an individual undertaking, obtained under the foregoing provisions of this Act, shall, without the previous consent in writing of the person carrying on the undertaking which is the subject of the estimates, returns or information, be disclosed except—

(a) in accordance with directions given by the Minister in charge of the government department in possession of the estimates, returns or information to a government department or to the Import Duties Advisory Committee for the purposes of the exercise by that department or committee of any of their functions: or

(b) for the purposes of any proceedings for an offence under this Act or any report of these proceedings."

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

Symbols use

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 as PQ 1000 in the Business Monitor Series.

Statistical units

The statistical unit for the purpose of the Censuses 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 that case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained, however. of employment and net capital expenditure at each unit.

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 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, which were mainly engaged in the administration of the production units within the scope of the censuses 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 is defined as a business consisting of either a single establishment, or of two or more establishments under common ownership or control. The bringing together of 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 which make returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data is entered on the register from returns to the annual censuses of production. In cases where an establishment does not make a return to these inquiries the employment data is based on information provided by the Department of Employment from the annual censuses of employment.

Establishments with 20 or more employees are included in the censuses each year and the information they supply to the census is supplemented by the returns that those of them.

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

Coverage

A return was required in the 1974 and 1975 Censuses 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 (i.e. persons employed by establishments who worked in their own homes etc. on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

These include all persons regarded as "self-employed" for national insurance purposes and members of their families who worked in the business without receiving a wage or salary; but such persons who worked less than half the normal number of working hours are excluded. Directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading: directors paid by fee only are not included.

Employees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, 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 in the figures for 1971 to 1975. 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. From 1973, 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 any legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost or premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and the amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during 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

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

Includes rent of industrial buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, postal etc. 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 outpu

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 and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head

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

Purchases

Purchases include the cost of raw materials, components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given 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 c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

The information shown in Table 9 was obtained in an inquiry carried out as a supplement to the Census of Production for 1974, in which the larger firms in each industry were asked to provide a breakdown of the figure of total purchases (other than purchases of goods for merchanting or factoring) that they contributed to the Census. No establishment with fewer than 25 employees was asked to contribute to the inquiry; and this exemption limit was raised to exclude establishments with fewer than 50 or 100 employees, in those industries in which exempted establishments were estimated to account for less than 15 per cent of the industry's total purchases. A breakdown of purchases similar to that sought in the 1974 inquiry was previously obtained as part of the Censuses of Production for 1963 and 1968, and results were published in Table 10 of the Industry Reports of those Censuses.

Sales of goods produced, work done and industrial services rendered

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 are included; as also are sales of waste products. Any 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 establishment's 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 and 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

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) 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.

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 includes repairs and maintenance, installation work, and technical research and studies rendered to other organisations.

Capital goods produced for establishments' own use

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

Non-industrial services rendered

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

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 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 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 (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 subcontractors 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 holiday homes, etc. for employees, former employees and their dependants are also included.

© Crown copyright 1978

Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB
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