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Business Monitor

A publication of the Government Statistical Service

Report on the Censuses of Production

Insulated wires and cables



Department of Industry
Business Statistics Office

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PA362

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A publication of the Government Statistical Service

Report on the Censuses of Production 1974 & 75

Insulated wires and cables

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

Stone and slate quarrying and mining

Miscellaneous mining and quarrying

Bacon curing, meat and fish products

Vegetable and animal oils and fats

Spirit distilling and compounding

Coke ovens and manufactured fuel

Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Lubricating oils and greases

Petroleum and natural gas

Milk and milk products

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Brewing and malting

PA239.2 British wines, cider and perry

Mineral oil refining

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synthetic rubber

PA279.3 Explosives and fireworks PA279.4 Formulated pesticides, etc.

Fertilizers

Steel tubes

Soft drinks

Tobacco

PA271.1 Inorganic chemicals PA271.2 Organic chemicals

Paint

PA279.1 Polishes

PA279.5 Printing ink

PA271.3 Miscellaneous chemicals

Bread and flour confectionery

Chalk, clay, sand and gravel extraction

PA1001 Introductory notes

Coal mining

Grain milling

Biscuits

Sugar

PA101

PA103

PA109

PA211

PA213

PA214

PA215

PA216

PA217

PA218

PA219

PA231

PA232

PA239.1

PA240

PA262

PA263

PA272

PA273

PA274

PA275

PA277

PA278

PA311

PA321

PA312

PA369.1	Electrical equipment for motor vehicles, cycles
	and the second of the second o

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

accessories, etc.
Shipbuilding and marine engineering PA380 Wheeled tractor manufacturing

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

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

wagons and trams
Engineers' small tools and gauges Cocoa, chocolate and sugar confectionery PARAN Fruit and vegetable products
Animal and poultry foods

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

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

PA395 Cans and metal boxes

Jewellery and precious metals PA 300 1 Metal furniture PA399.5 Drop forgings, etc.

PA399.6 Metal hollow-ware PA399.8 Miscellaneous metal manufacture

Production of man-made fibres Spinning and doubling on the cotton and flax systems Weaving of cotton, linen and man-made fibres PA412

PA413 PA414

PA415 lute

PA416 Rope, twine and net

PA417.1 Hosiery and other knitted goods PA417.2 Warp knitting

PA418 PA419 Carpets

PA421 Narrow fabrics

PA422. Household textiles and handkerchiefs

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

Textile finishing PA429.1 Asbestos

PA429.2 Miscellaneous textile industries

Leather (tanning and dressing) and fellmongery PA431

PA432 Leather goods

Glass

Cement

PA279.6 Surgical bandages, etc. Weatherproof outerwear PA279.7 Photographic chemical materials PA///1

PA442 Men's and boys' tailored outerwear Iron and steel (general) PA443 Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc. PA444

PA463

PA464

Iron castings, etc. Dresses, lingerie, infants' wear, etc. Aluminium and aluminium alloys Copper, brass and other copper alloys PA446 Hats, caps and millinery

PA322 PA449.1 Corsets and miscellaneous dress industries PA323 Miscellaneous base metals PA331

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

PA333 Pumps PA461.2 Building bricks and non-refractory goods Valves Compressors and fluid power equipment PA462 Pottery

PA334 Industrial engines
Textile machinery and accessories PA335 PA336 Construction and earth-moving equipment

PA469 Ahrasives PA469.2 Miscellaneous building materials and mineral products PA337 Mechanical handling equipment PA471 Timber PA338 Office machinery

Furniture and upholstery PA339.1 Mining machinery
PA339.2 Printing, bookbinding and paper goods machinery PA472 Bedding, etc.
Shop and office fittings
Wooden containers and baskets PA339.3 Refrigerating machinery, space-heating, PA474

PA475 ventilating and air-conditioning equipment PA479

PA339.5 Scales and weighing machinery and portable Miscellaneous wood and cork manufactures PA481 Paper and board

Cardboard boxes, cartons and fibre-board packing cases PA339.7 Food and drink processing machinery and Packaging products of paper and associated materials Manufactured stationery packaging and bottling machinery PA482.2 PA483 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 PA349.1 Ball, roller, plain and other bearings
PA349.2 Precision chains and other mechanical engineering PA485 General printing and publishing

Photographic and document copying equipment PA491 Rubber Linoleum, plastics floor-covering, leathercloth, etc. PA352 Watches and clocks Brushes and brooms
Toys, games and children's carriages Surgical instruments and appliances PA493

PA494. PA354 Scientific and industrial instruments and systems PA494.3 PA361 Sports equipment Electrical machinery Miscellaneous stationers' goods PA362 Insulated wires and cables PA495

PA496 Plastics products PA363 Telegraph and telephone apparatus and PA499.1 Musical instruments
PA499.2 Miscellaneous manufacturing industries equipment

PA364 Radio and electronic components

Gramophone records and tape recordings PA500 Construction PA365.1 PA365.2 Broadcast receiving and sound reproducing PA601 Gas PA602 Electricity equipment

Electronic computers Water supply PA367 Radio, radar and electronic capital goods PA1002 Summary tables Electrical appliances primarily for domestic use PA368

PA362 INSULATED WIRES AND CABLES

The information in this report relates to establishments classified to the Insulated wires and cables industry, minimum list heading 362 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing insulated electrical instrument wire, cables for telecommunication, and for power transmission, and cable jointing materials and accessories (other than insulating materials).

> 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 No	Title	Page	
1	Output and costs, 1971-1975	PA362	2
2	Capital expenditure, 1971-1975	PA362	3
3	Stocks and work in progress, 1971-1975	PA362	3
4	Analysis of establishments by size, 1975	PA 362	4-5
5	Regional distribution of employment, net capital expenditure and net output, 1975	PA 362	6
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975	PA 362	7
7	Percentage analysis of employees, by full and part-time employment and sex, 1975	PA 362	7
8	Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1974-1975	PA 362	8
9	Purchases by establishments employing 100 or more persons, classified to the industry, 1974		
	Analysis of returns received, United Kingdom	PA362	9-10
10	Payments to other organisations for certain services received by returns received in respect of establishments with 300 or more employees, 1974	PA 362	11

PA 362 2

Output and costs, 1971-1975

All United Kingdom establishments classified to the industry (a)

	Unit	1971	1972	1973	1974	1975
Enterprises	Number	65	62	65	70	70
Establishments		87	85	93	95	97
Sales of goods produced, work done and industrial services rendered (b)	£ thousand			526,195	702,536	653,838
Capital goods produced for establishments' own use (c)		423,992	429,604	1,424	645	1,491
Non-industrial services rendered (d)	"			1,992	2,019	2,429
Goods merchanted or factored	}			(e)	(e)	(e)
Total sales and work done (b)(d)	"	423,992	429,604	529,612	705,200	657,758
Increase during the year, work in progress and goods on hand for sale	"	-6,026	3,569	16,730	12,342	-6,098
Gross output (b)(d)	"	417,965	433,173	546,341	717,541	651,660
Purchases of materials for use in production, and packaging and fuel (c)	<i>"</i>		ſ	385,338	542,361	422,998
Purchases of goods for merchanting or factoring (c)	,, }	265,050	273,330 {	(f)	(f)	(f)
Increase during the year, stocks of materials, stores and fuel		–707	2,918	8,689	12,076	-7,250
Cost of industrial services received (g)	"	889	631	13,093	13,906	15,198
Net output	"	151,320	162,130	156,600	173,350	206,214
Total employment (h)	Thousands	46.1	45.4	46.0	46.3	43.4
Net output per head	£	3,282	3,571	3,406	3,743	4,750
Payments for non-industrial services (j)						
Rents, hire of plant and machinery (k)	£ thousand			1,069	1,649	1,753
Commercial insurance premiums	,,			1,751	1,889	2,296
Bank charges	,,			132	153	431
Other non-industrial services	"			8,785	13,489	14,387
Licensing of motor vehicles (I)	*		{	136	159	181
Rates, excluding water rates (I)	,,			2,681	3,678	4,478
Gross value added at factor cost				142,045	152,333	182,689
Gross value added at factor cost per head	£			3,089	3,289	4,208

- (a) For 1975, estimates for establishments employing less than 20 persons accounted for 1 per cent of the total employment of the industry. Estimates for unsatisfactory returns and non-response accounted for 3 per cent. For 1974, the comparable figures were 1 per cent and 3 per cent respectively.
- (b) The figures for 1971-1972 do not include receipts for repairs and maintenance.
- (c) Not recorded separately for 1971-1972.
- (d) The figures for 1971-1972 do not include revenue from rents for industrial buildings.
- (e) Included in sales of goods produced, work done and industrial services rendered.
- (f) Included in purchases of materials for use in production and packaging and fuel.
- (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.

TABLE 2

Capital expenditure, 1971-1975

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

A Committee of the Comm					£ thousand
	1971	1972	1973	1974	1975
Land and buildings					1000000
New building work	965	2,011	2,784	3,003	1,567
Land and existing buildings					
Acquisitions	465	100	59	274	1,227
Disposals	28	311	164	22	141
Vehicles					
Acquisitions					
Motor cars (c)]	(480	627	1
Other vehicles (c)	} 767	977 {	316	378	} 1,465
Disposals					
Motor cars (c))	[186	186)
Other vehicles (c)	} 196	245 {	15	79	328
Plant and machinery					
Acquisitions	9,948	11,514	16,403	17,701	19,358
Disposals	294	287	341	647	346
Total net capital expenditure (d)	11,628	13,759	19,334	21,049	22,801

- (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)

						£ thousand
	1971	1972	1973	1974		1975
		Incre	ease			Value at end of year
Materials, stores and fuel	-707	2,918	8,689	12,076	-7,250	32,575
Work in progress	-3,295	3,193	10,573	2,715	-3,950	31,808
Goods on hand for sale	-2,731	376	6,157	9,627	-2,147	43,582
Total	-6,733	6,487	25,419	24,417	-13,348	107,965

⁽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	ent		Wages and salaries (e)			
			Total (b)	Opera- tives	Others (d)				Others (d)	
			<u> </u>			Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 - 10	20	20	111)						
11 - 19	14	13	221	000	000	4 700	0.040	050	0.000	
20 - 49	15	15	476	806	328	1,788	2,218	950	2,896	
50 - 99	4	4	361	J						
100 - 199	15	14	2,134	1,634	498	3,929	2,404	1,362	2,735	
200 - 299	6	5	1,474	1,203	271	2,626	2,182	701	2,586	
300 - 399	4	4	1,288	903	385	2,237	2,477	1,033	2,684	
400 - 749	7	4	4,206	3,038	1,168	7,832	2,578	3,461	2,963	
750 - 999	3	3	2,571	1,777	794	5,295	2,980	2,543	3,203	
1,000 - 1,499	4	3	4,954	2,920	2,034	9,177	3,143	5,820	2,861	
1,500 and over	5	5	25,616	17,754	7,862	48,598	2,737	25,181	3,203	

Total	97	70	43,412	30,035	13,340	81,481(j)	2,713	41,051(j)	3,077

⁽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		Gross value added at factor cost	added at		Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
13,278	13,215	5,788	4,951	(h)	(h)	461	2,558
28,537	28,015	12,249	5,740	16,513(h)	4,999(h)	2,045	5,709
16,317	15,386	6,297	4,272	5,870	3,983	370	2,610
18,046	17,607	5,977	4,641	5,024	3,900	357	3,423
57,168	55,326	22,181	5,274	20,068	4,771	1,530	8,855
49,552	49,474	16,702	6,496	15,391	5,986	2,215	9,918
78,818	79,684	28,746	5,803	24,677	4,981	2,993	14,300
396,042	392,954	108,274	4,227	95,146	3,714	12,830	60,592

657,758	651,660	206,214	4,750	182,689	4,208	22,801	107,965	

⁽f) Comprises sales of goods produced (including capital goods manufactured, buildings constructed by establishments for their own use), work done, industrial and non-industrial services rendered, goods merchanted or factored.

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

	£'000
Operatives	68,53
Others	34,76

⁽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 £15,936 thousand. For 1974, the comparable figure was £12,331 thousand. In addition, the remuneration of outworkers on returns received was £63 thousand in 1974 and £45 thousand in 1975.

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

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

Area	Employment (a) Net capital expenditure (b)(c)		of establishing	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
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	and the same of the same
Standard regions of England						
North	*	*	*	*		Washington .
Yorkshire and Humberside	0.5	1.1	196	0.9		
East Midlands	1.4	3.3	721	3.2	90000-7*	*
East Anglia	_	-	-	-	_	- 1000
South East	13.5	31.2	6,525	28.6	52,946	73.2
South West	0.1	0.2	24	0.1	-	_
West Midlands	*	•	*		* 100	* **
North West	20.0	46.0	10,101	44.3	68,230	94.7
England	38.2	88.0	19,151	84.0	141,531	84.5
Wales	2.9	6.6	1,836	8.1	19,146	95.0
Scotland	1.4	3.2	1,757	7.7	5,738	65.6
Great Britain	42.5	97.8	22,743	99.8	166,414	84.6
Northern Ireland	1.0	2.2	58	0.3	3,722	100.0
United Kingdom	43.4	100.0	22,801	100.0	206,214(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 £36,078 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

Accour	ting year ended	Percentage of total returns received	Percentage of total number employed
		per cent	per cent
1975	April (a)	0.0	0.0
	May	0.0	0.0
	June	2.1	0.1
	July	2.0	0.4
	August	0.0	0.0
	September	4.1	0.3
	October	0.0	0,0
	November	4.1	2.8
	December	57.1	63.3
1976	January	6.1	5.3
	February	0.0	
	March (b)	24.5	27,8
		100.0	100.0

(a) From 6th April.

TABLE 6

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

TABLE 7

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

Sex	Full-time	Part-time	All employees	
	per cent	per cent	per cent	
Male	71	1	72	
Female	24 95	4 5	28 100	

Source: Department of Employment

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

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 Insulated wires and cables industry are published regularly in Business Monitor PQ362. Details of sales for 1974 will be found in the monitor for third quarter 1976 published February 1977 and for 1975 in the third quarter 1977 issue published November 1977.

Quarterly Business Monitors are available from HMSO by annual subscription.

Purchases by establishments employing 100 or more persons, classified to the industry, 1974 Analysis of returns received, United Kingdom

			Value	
			£ thousand	
aterials for use in production				
	ſ	Th tonnes 7.6	1,615	
Iron and steel in all forms except finished parts, wire and scrap	1		1,518	
Wire and wire manufactures (excluding insulated wires and cables):				
Ferrous			5,663	
Non-ferrous			61,617	
Insulated wires, cables, strips and strands, purchased for further processing			6,850	
Light metals and non-ferrous metals in all forms except finished goods, wire and scrap				
Aluminium and aluminium alloys		0 - 3 12 12 1	23,426	
Copper, brass and other copper alloys			232,159	
Other light metals and non-ferrous metals and their alloys e.g. lead, solder, nickel, zinc, etc.			11,448	
Bitumen and bituminous compounds			140	
Insulating oils			1,831	
Paper and board (excluding stationery and packaging materials) e.g. pressboard, paper yarn, tubes, etc.		12.9	4,731	
Manufactures wholly or mainly of natural or synthetic rubber, balata and gutta-percha		12.5	4,751	
including sheeting, but excluding replacement parts for the firms' own machinery, plant, vehicles, etc.			247	
Paint, varnish, lacquers and stains			1 1 2 0	
Synthetic resins and plastics materials(excluding leathercloth and reinforced plastics):		arsining applemen	1,130	
Polyethylene and polypropylene and copolymers, granules, moulding and extrusion compounds			11,644	
Other synthetic resins and plastics materials e.g. polyvinyl chloride, polystyrene, phenolics		Th tonnes		
and allied products, laminated thermosetting sheet, aminoplastics, thermosetting polyesters, etc.		89.1	22,789	
Products wholly or mainly of plastics			811	
Textiles (not oiled or otherwise coated or impregnated with insulating materials):				
Spun yarns and woven fabrics (other than narrow fabrics) wholly or mainly of				
Cotton, silk, or man-made fibres including glass fibres			2,456	
Jute or polypropylene			862	
Narrow fabrics (not more than 30cm wide) e.g. tape, binding, etc.			706	
Electrical insulating materials not elsewhere specified			1,928	
Electrical and electronic components			4,194	
Inorganic and organic chemicals (including gases), chemical mixtures and compounds for specific				
end uses			712	
Natural rubber	ſ	Th tonnes	362	
	{	·	79	
Synthetic rubber				
SBR and solution-type rubbers		0.4	252	
Other solid		3.7	2,260	
Water charges			359	
tionery and printed matter				
Stationery			864	
Catalogues, price lists, etc.			175	
			175	
kaging materials (including materials for the manufacture of the firms' own packaging)				
Paper and board:				
Cartons and boxes wholly or mainly of cardboard (excluding fibreboard packing cases,			1,255	

TABLE 10

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

		Quantity	Value
			£ thousand
Packaging materials (including materials for the manufacture of the firms' own packaging) (continued)		
Paper and board (continued)			
Other packaging products of paper and board			642
Packaging products wholly or mainly of wood, and wood for conversion into packaging products			4,288
All other packaging materials			1,194
Fuel and electricity			
Coal and coke (including breeze and manufactured fuel)			301
Derv fuel and motor spirit	{	Th gal 933 	448 51
Fuel oil			2,287
		Th therms	
Gas	{	17,015	637 66
Electricity	•	 	4,809
All other fuels			343
Replacement parts and consumable tools			
Tyres and other spare parts for the firms' own road vehicles			308
Replacement parts for the firms' own machinery, plant and equipment			4,356
Consumable tools (including gauges)			1,051
Other purchases			5,020
TOTAL VALUE OF PURCHASES (other than for merchanting or factoring)			429,884

	£ thousand
ustrial services received	13,120
Repairs and maintenance to	
Buildings	658
Road goods vehicles	336
Plant and machinery	2,195
Work done on materials given out	9,930
Other	3,930
n-industrial services received	15,871
Rent of buildings, hire of plant and machinery	1,521
Commercial insurance premiums	1,631
Bank charges	141
Postage, telephone, telegrams, cables and telex	1,009
Transport	
Road	4,298
	224
Rail and other means (excluding postal services)	224

Note

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 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 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 Kinadom.

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 output

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

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services (e.g. rent of buildings 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.

Purchase.

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.

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