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Business Statistics Office

Business Monitor

Report on the Census of Production

Radio, radar and electronic capital goods



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PA367

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1976

Radio, radar and electronic capital goods

Presented by the Secretary of State for Industry to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo.6 Cha.39 sec 7)

Department of Industry Business Statistics Office

London: Her Majesty's Stationery Office

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PA104	Petroleum and natural gas		accessories, etc.
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PA211	Grain milling	PA380	Wheeled tractor manufacturing
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PA213 PA214	Biscuits Bacon curing, meat and fish products	PA382	Motor cycle, tricycle and pedal cycle manufacturing
PA215	Milk and milk products	PA383	Aerospace equipment manufacturing and repairing
PA216	Sugar	PA384	Locomotives, railway track equipment, railway carriages
PA217	Cocoa, chocolate and sugar confectionery	DA 000	wagons and trams
PA218	Fruit and vegetable products	PA390 PA391	Engineers' small tools and gauges Hand tools and implements
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	Starch and miscellaneous foods	PA394	Wire and wire manufactures
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PA232		PA396	Jewellery and precious metals Metal furniture
	Spirit distilling and compounding British wines, cider and perry		Drop forgings, etc.
PA240	Tobacco		Metal hollow-ware
PA261	Coke ovens and manufactured fuel		Miscellaneous metal manufacture
PA262	Mineral oil refining	PA411	Production of man-made fibres
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	Inorganic chemicals Organic chemicals	PA414	Woollen and worsted
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PA274 PA275	Paint Soap and detergents	PA417.2	Lace
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PA278	Fertilizers	PA422.2 PA423	Canvas goods and sacks and other made-up textiles Textile finishing
	Polishes Formulated adhesives, gelatine, etc.		Asbestos
	Explosives and fireworks		Miscellaneous textile industries
	Formulated pesticides, etc.	PA431	Leather (tanning and dressing) and fellmongery
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PA336	Construction and earth-moving equipment	PA469.1	Abrasives
PA337	Mechanical handling equipment		Miscellaneous building materials and mineral products
PA338	Office machinery	PA471 PA472	Timber Furniture and upholstery
	Mining machinery Printing, bookbinding and paper goods machinery	PA472	Bedding, etc.
	Refrigerating machinery, space-heating,	PA474	Shop and office fitting
	ventilating and air-conditioning equipment	PA475	Wooden containers and baskets
PA339.5	Scales and weighing machinery and portable	PA479	Miscellaneous wood and cork manufactures
PA330 7	power tools Food and drink processing machinery and	PA481 PΔ482 1	Paper and board Cardboard boxes, cartons and fibre-board packing cases
1 4333.7	packaging and bottling machinery		Packaging products of paper and associated materials
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PA341	Industrial (including process) plant and steelwork		Wallcoverings
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	Ball, roller, plain and other bearings Precision chains and other mechanical engineering	PA485 PA489	General printing and publishing
PA351	Photographic and document copying equipment	PA491	Rubber
PA352	Watches and clocks	PA492	Linoleum, plastics floor-covering, leathercloth, etc.
PA353	Surgical instruments and appliances	PA493	Brushes and brooms
PA354	Scientific and industrial instruments and systems		Toys, games and children's carriages Sports equipment
PA361 PA362	Electrical machinery Insulated wires and cables	PA494.3	Miscellaneous stationers' goods
PA363	Telegraph and telephone apparatus and	PA496	Plastics products
	equipment	PA499.1	Musical instruments
PA364	Radio and electronic components		Miscellaneous manufacturing industries
PA365.1	Gramophone records and tape recordings Broadcast receiving and sound reproducing	PA500 PA601	Construction Gas
7,7000.2	equipment	PA602	Electricity
PA366	Electronic computers	PA603	Water supply
PA367	Radio, radar and electronic capital goods	PA1002	Summary tables
PA368	Electrical appliances primarily for domestic use		

The information in this report relates to establishments classified to the Radio, radar and electronic capital goods industry, minimum list heading 367 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing electric or electronic sound or visual signalling systems or apparatus such as bells, sirens, indicator panels, burglar and fire alarms, road traffic signalling equipment (but not signalling equipment for vehicles), electronic railway signalling equipment (but not electric railway signalling equipment); radio and television transmitters, radio communication receivers, radar and electronic navigational aids, high-frequency heating apparatus, magnetic compasses and gyroscopes, X-ray apparatus and electromedical equipment including infra-red, ultra-violet, radiant heat, etc. lamps for diagnosis and therapy: electrical and electronic equipment for stimulation and massage; heart, kidney and lung machines; sterilising equipment and reading aids. Industrial electronic control equipment, electronic measuring equipment, electronic computers and electronic desk calculators are excluded.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

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PA367

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

	Unit	1973	1974	1975	1976
Enterprises	Number	455	573	637	Prizade gninutati 757
Establishments	sulfulnimos out ar sulfulnimos oitis	525	665	741	Manufacture 863
Sales of goods produced	£ thousand	435,545	542,545	724,987	812,929
Receipts for work done and industrial services rendered	industrial electric	(b)	(b)	(b)	60,491
Capital goods produced for establishments' own use	lairmess at plass	1,954	2,881	2,847	2,706
Non-industrial services rendered	o Romananos doi	11,631	18,266	25,971	25,865
Goods merchanted or factored		28,236	37,828	45,017	96,754
Total sales and work done (c)		477,366	601,519	798,822	998,745
Increase during the year, work in progress and goods on hand for sale		9,164	47,597	53,636	55,468
Gross output	"	486,531	649,116	852,458	1,054,213
Purchases of materials for use in production, and packaging and fuel	"	179,011	226,108	322,078	373,766
Purchases of goods for merchanting or factoring		26,474	40,368	35,461	68,904
Increase during the year, stocks of materials, stores and fuel	,,	13,491	14,731	11,252	5,477
Cost of industrial services received		16,108	18,605	20,062	28,894
Net output	,,	278,429	378,765	486,109	588,126
Total employment (d)	Thousands	89.1	92.4	96.5	96.3
Net output per head	£	3,124	4,099	5,036	6,108
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	4,480	5,851	7,867	10,583
Commercial insurance premiums		3,123	3,792	4,596	5,267
Bank charges	"	282	608	830	615
Other non-industrial services (g)	"	15,971	15,813	27,340	34,631
icensing of motor vehicles		84	113	149	атизтиру 203
ates, excluding water rates		2,916	3,939	5,788	6,584
Gross value added at factor cost	"	251,573	348,649	439,538	530,243
Gross value added at factor cost per head	£	2,823	3,773	4,553	5,506

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 83 per cent of employment within the industry.

TABLE 2

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

All United Kingdom establishments classified to the in					£ thousand
Wegespay solution (Houghpus Arrange)	1973	1974	1975		1976
Land and buildings		To the contract of	tal. y	2301558	(d)
New building work	2,632	2,877	1,782		3,596
Land and existing buildings					
Acquisitions	1,326	1,481	2,578		1,416
Disposals	806	163	121		58
Vehicles					
Acquisitions					
Motor cars	1,134	1,426)	1,786		2,564
Other vehicles	208	238)	1,700		00-00
Disposals					
Motor cars	362	379)			
Other vehicles	28	30)	452		790
Plant and machinery					
Acquisitions	16,242	20,919	18,682		25,650
Disposals	666	424	627		2,079
Total net capital expenditure	19,681	25,944	23,627		30,299

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 83 per cent of employment within the industry.

TABLE 3

Stocks and work in progress, 1973 - 1976 All United Kingdom establishments classified to the industry (a)

					£ thousand
120,002 C15 493,052 208,000	1973	1974	1975		1976
	omenantemen metter Jesep Otte se optical	eon knadavycho	Increase	Seer British Republication	Value at end of year
Materials, stores and fuel	13,491	14,731	11,252	5,477	86,458
Work in progress	9,997	41,205	40,390	46,935	268,381
Goods on hand for sale	-833	6,392	13,246	8,533	58,234
Total	22,655	62,328	64,888	60,945	413,073

⁽a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 83 per cent of employment within the industry.

⁽b) Included with Sales of goods produced.

⁽c) Details of manufacturers' sales of principal products are published regularly in Business Monitor PQ367.

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

⁽e) 1973 figures include hire of vehicles.

⁽f) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £7,054 thousand.

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

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

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

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employr	nent		Wages and sa	alaries (f)		and bha t	
			Total (d)	Opera-	Others (e)	Operatives		Others (e)	Others (e)	
			(0)	tives	(e)	Total	per head	Total	per head	
88 s	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 - 10	516	497	2,299)							
11 - 19	125	119	1,780)							
20 - 49	76	75	2,406)	5,620	3,483	13,102	2,331	11,078	3,181	
50 - 99	43	43	3,037)							
100 - 199	35	34	4,560	2,880	1,679	7,033	2,442	5,322	3,170	
200 - 299	14	11	3,445	1,916	1,529	4,770	2,490	4,799	3,139	
300 - 399	11	10	3,849	1,951	1,898	5,944	3,047	6,519	3,435	
400 - 499	7	6	3,109	1,563	1,546	4,700	3,007	5,242	3,391	
500 - 749	8	7	4,773	2,175	2,598	6,646	3,056	8,731	3,361	
750 - 999	6	6	5,268	2,825	2,443	8,885	3,145	9,404	3,850	
,000 - 1,499	4	4	4,608	1,969	2,639	5,983	3,039	9,118	3,455	
,500 - 1,999	9	6	15,068	6,644	8,424	20,786	3,128	29,630	3,517	
,000 and over	9	7	42,093	17,894	24,199	49,454	2,764	87,808	3,629	

Total	863	757	96,295	45,437	50,438	127,303	2,802	177,652	3,522

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

Total sales Gross output Net output and work done (g)				Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year
		Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	E per carror funited Kingdom	£ thousand	£	£ thousand	£ thousand
92,397	96,436	50,297	5,282	(j)	(j)	2,271	25,091
43,891	46,338	24,890	5,458	67,102(j)	4,765(j)	1,269	12,413
35,295	37,422	19,132	5,554	17,137	4,975	709	12,417
49,149	49,007	25,354	6,587	22,411	5,823	1,231	14,727
34,132	36,696	21,817	7,017	18,628	5,992	582	17,116
66,158	66,879	36,197	7,584	33,449	7,008	1,019	23,803
85,9 29	86,277	40,689	7,724	36,287	6,888	1,330	39,210
43,030	44,707	25,599	5,555	22,289	4,837	1,068	18,093
166,012	172,767	105,108	6,976	95,158	6,315	7,499	77,962
382,752	417,685	239,043	5,679	217,782	5,174	13,320	172,242

530,243

30,299

413,073

1,054,213

998,745

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

⁽c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.

⁽d) Including working proprietors.

⁽e) Administrative, technical and clerical employees.

⁽f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £37,691 thousand. In addition, the remuneration of outworkers on returns received was £148 thousand.

Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.

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

⁽j) Gross value added data relate to establishments employing 1-199.

PA367

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976 All United Kingdom establishments classified to the industry

Area	Total employment	t (a)	Net capital expenditure	let capital xpenditure (b)(c) the region from returns receive ments with more than 80 per ment in the region (d)		eived from e	eived from establish-		
					Net output	Gross value added at factor cost	percenta	ment as a age of total employment dustry	
81.731	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand	OCH POLICE	<u> </u>	
Standard regions of England									
North	1.1	1.1	446	1.5		* 001			
Yorkshire and Humberside	0.6	0.6	333	1.1	568	484	31.8		
East Midlands	3.3	3.5	564	1.9	3,441	3,072	22.0		
East Anglia	3.2	3.4	1,271	4.2	192017.4	12.2 00%, \$19.	027,137,		
South East	66.2	68.8	22,133	73.0	285,552	259,141	64.9		
South West	8.8	9.1	1,401	4.6	34,665	30,124	69.0		
West Midlands	2.2	2.3	408	1.4	7,684	7,120	66.4		
North West	2.5	2.6	900	3.0	5,555	4,919	33.2		
England	88.0	91.4	27,456	90.6	361,037	325,260	62.6	080.0	
Wales	1.2	1.2	355	1.2	20 mgen.	aon 14 , 181	*		
Scotland	7.1	7.3	2,485	8.2	49.23 ¥840.	#25 / TO 1 + #55	398.409		
Great Britain	96.3	100.0	30,296	100.0	390,579	353,504	63.6		
Northern Ireland	_	- 1/4		_	_		_		
Unallocated (e)	-	164 Ste	-	_	197,548	176,738	_		
United Kingdom (b)	96.3	100.0	30,299	100.0	588,126	530,243			

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

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

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

(d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at the address.

(e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

Accoun	ting year ended	Percentage of tot	al returns received	Percentage of total	I number employed
not all	1 Don into Sint To Lead to the control to the control to the control of the contr	per cent	NO CONTRACTOR OF THE PARTY OF T	per cent	400 10 - 10 - 10 - 10 - 10 - 10 - 10
1976	April (a)	2.1		0.2	
	May	1.4		0.1	
	June	6.4		7.5	
	July	4.3		8.2	
	August	3.6		0.5	
	September	2.9		0.6	
	October	5.0		0.4	
	November	3.6		2.4	
	December	33.6		15.0	
1977	January	4.3		1.1	
	February	0.0		0.0	
	March (b)	32.9		64.0	

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

Sex	Full-time	Part-time	All employees
evop i goranasobi t	per cent	per cent	per cent
Male	72	NO topot 1 the taxe or	73
Female	22	5	27

Source: Department of Employment

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

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Notes

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor -PA1001 (Introductory Notes) of the Report on the Census of Production, 1976.

GENERAL INFORMATION

Changes made for 1976

The Census for 1976 is in line with similar inquiries being conducted in other member countries of the European Economic Communities. There was a small number of changes in the scope of the industry reports compared with 1975. These include separate headings for:

Sales of goods produced

Receipts for work done and industrial services rendered

Amounts paid for hire of plant and machinery Amounts paid for rent of industrial and commercial buildings

Specific changes are explained in the introductions to the industry reports or by footnotes to the tables.

Suppression of information relating to individual undertakings

Section 9(5)(b) of the Statistics of Trade Act 1947 states - "The following provisions shall have effect with respect to any report, summary or other communication to the public of information obtained under the foregoing provisions of this Act -

In compiling any such report, summary or communication the competent authority shall so arrange it as to prevent any particulars published therein from being identified as being particulars relating to any individual person or undertaking except with the previous consent in writing of that person or the person carrying on that undertaking, as the case may be; but this provision shall not prevent the disclosure of the total quantity or value of any articles produced, sold or delivered; so, however, that before disclosing any such total the competent authority shall have regard to any representations made to them by any person who alleges that the disclosure thereof would enable particulars relating to him or to an undertaking carried on by him to be deduced from the total disclosed."

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

Symbols used

The following symbols are used throughout the PA series of Business Monitors:

not available

nil or less than half the final digit shown figures cannot be shown owing to the risk of disclosing information about individual enterprises

R revised

Rounding of figures

Figures in the tables have, where necessary, been rounded to the nearest final digit. Where figures have been so rounded, the sum of the constituent items may not always agree exactly with the total

Industrial classification United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom, The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published in Business Monitor PQ1000.

Statistical units

The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically establishment embraces all the activities carried on at a single address e.g. a farm, a mine or a factory, including those which are ancillary to the principal activities. Frequently distinct activities characteristic of different industries are carried on at one address, but normally these are not classified separately and the whole establishment is classified according to the main activity. If, however, the required range of data can be provided for each activity, each is taken to constitute a separate establishment. Sometimes activities which are conducted as a single business are carried on at a number of addresses. Where this is so, businesses are asked to provide the full range of separate information in respect of each address; whether or not the activities are different. Their activities may, however, be integrated to such an extent that they constitute a single establishment. In the latter case the establishment is defined to cover the combined activities at these addresses (termed local units). Separate figures are obtained of employment and net capital expenditure at each unit in order to compile regional tables. Efforts are made by the Business Statistics Office 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

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 mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them. For certain purposes in the annual censuses of

production (especially the enterprise analyses of Rusiness Monitor PA1002) related establishments are combined. For these purposes an enterprise group may be defined as a business consisting of oither a single establishment or two or more establishments under common ownership or control. Bringing together establishments into enterprise croups 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 stablishments, the changing structure of groups companies and about common ownership links is btained from many sources, including the Stock Exchange Year Book, company reports, press reports nd information supplied by individual establish-

the register permits a questionnaire to be sent direct to the reporting establishment on which the latter can include information relating to all the manufacturing (or local) units which it comprises.

the inquiries provide a major source of information for keeping the register continuously up-to-date and act as a check on its detail and structure. For the establishments on the register making eturns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. Employment data are entered on the register from returns to the annual census of production. In cases where an establishment does not make a return to these inquiries the employment data are based on information provided by the Department of Employment from the annual censuses of employment.

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 with 25 or more employees provide to the quarterly inquiries. Information about establishments with fewer than 20 employees 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).

A return was required in the 1976 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

he 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

verage number employed

Establishments were required to state the number persons on the payroll on average during the ear 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)

verages could be calculated from the figures elating to the last week of each calendar month. stablishments were also required to state the

number of working proprietors where appropriate and these are included in total employment figures. Outworkers (i.e. persons employed by establishments who worked in their own homes etc. on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

Working proprietors

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

Emp lovees

Administrative, technical and clerical employees include directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research and design employees (other than operatives); draughtsmen, editorial staff, advertising staff, travellers and all office employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage They include operatives employed in earners. power stations, transport (including roundsmen), warehouses, stores, shops and canteens, inspectors, maintenance workers and cleaners. Operatives engaged in outside work of erecting, fitting etc. are also included, but outworkers are excluded.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

(a) New building work

This represents the cost incurred during the year of new building and other constructional work to be used in connection with the business covered by the return. The value is that charged to capital account during the year of return; it includes expenditure on new buildings and on the extension or reconstruction of old buildings, the value of works of a capital nature carried out by the establishment's own staff and the cost of any newly constructed buildings purchased. Figures shown include legal charges, stamp duties, agents' commissions, etc.

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

(c) Plant, machinery and vehicles The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which

firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off for items scrapped.

Cost of industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishpayments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" are also included.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for

Net output

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

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of nonindustrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

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

Purchases

Purchases include the cost of raw materials,

components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another depart. ment of the same firm not covered by the establishment's return are included at a cost 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 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 facilities as canteens. to suppliers and any trade discounts are excluded, Materials purchased duty-paid are included at their 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 coi.f. plus duty (if applicable). Leasing, renting manufacturing process by the seller. and hire purchase charges are excluded.

Sales of goods produced

Sales of goods produced
Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the lishments in the United Kingdom covered by the lishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the regarded as sales, the value included in the 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 goods were manufactured. Goods produced in one goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser, goods transferred to wholesale or retail selling regularly or not, and no deduction is made for they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis. The value shown for sales 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. 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 σ exported.

Work done and industrial services rendered

development, glass cutting and dressing and planing of timber.
Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

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

Non-industrial services rendered
This includes rents received for commercial and
Industrial buildings, amounts charged for hiring
out plant, machinery and other goods and amounts
charged to other organisations for the provision of

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

regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. he 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. mounts paid to outworkers by sub-contractors are excluded.

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain national insurance and graduated pensions (and/or national insurance and graduated pensions (and/or national insurance and graduated pensions). earnings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc. for employees, former employees and their dependants are also included.

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