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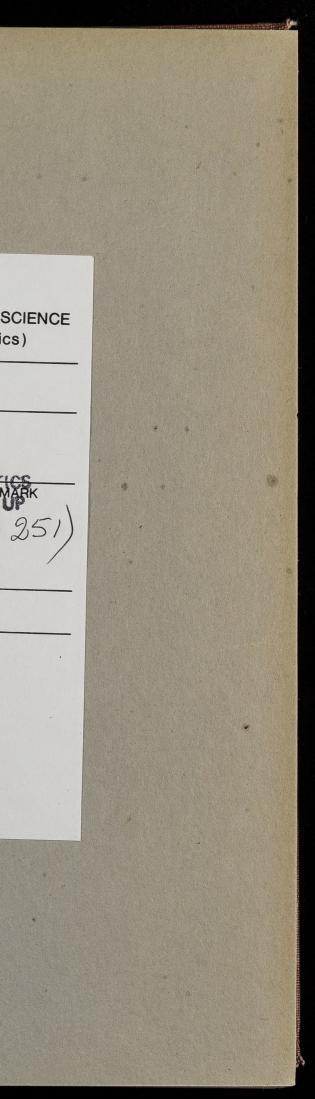
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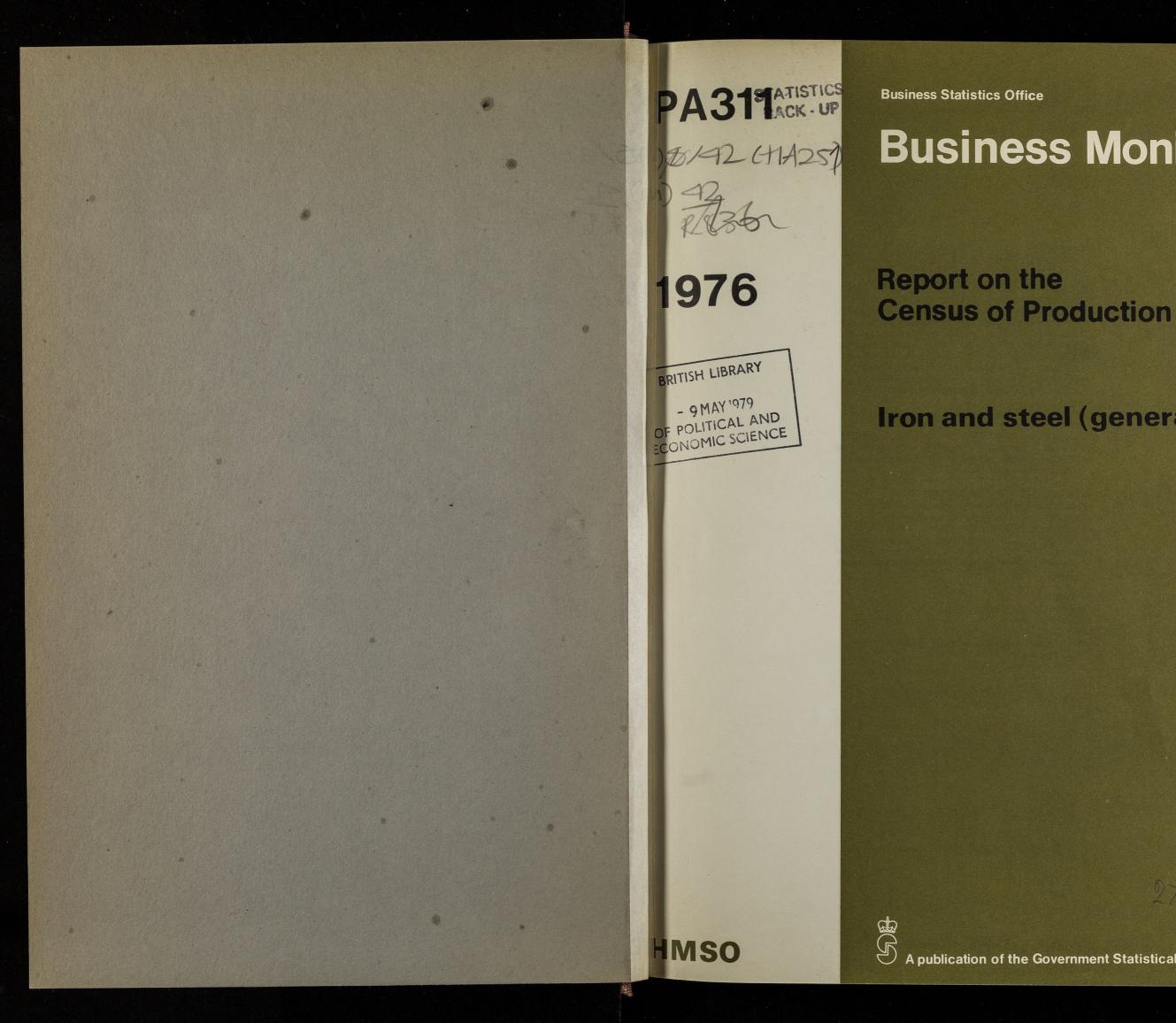
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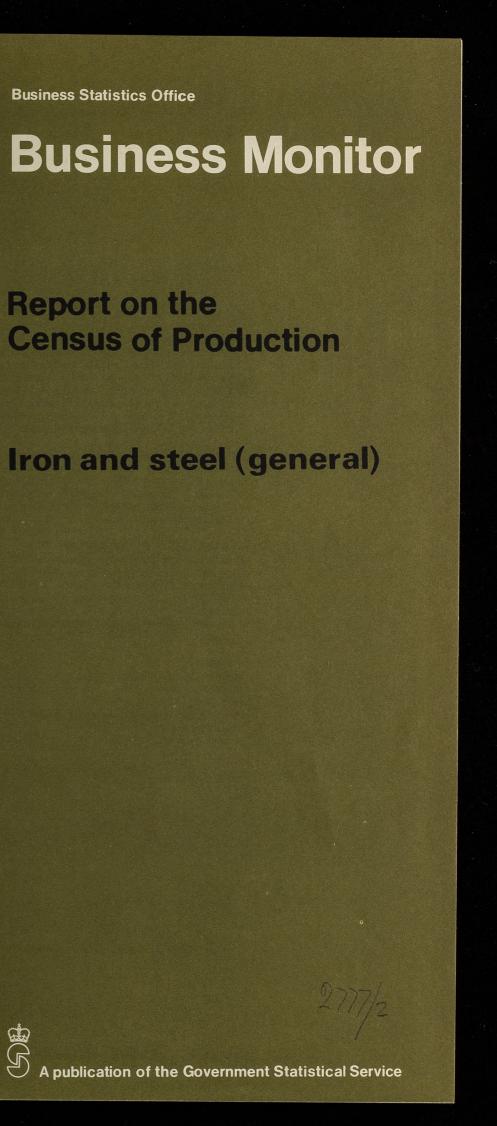


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Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating 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:

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Report on the Census of Production 1976

Business Monitor

A publication of the Government Statistical Service

Iron and steel (general)

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

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PA369.1	Electrical equipment for motor vehicles, cycles	
	and aircraft	
	Primary and secondary batteries Electric lamps, electric light fittings, wiring	
1 4000.1	accessories, etc.	
PA370	Shipbuilding and marine engineering	
PA380 PA381.1	Wheeled tractor manufacturing Motor vehicle manufacturing	
PA381.2	Trailers, caravans and freight containers	
PA382	Motor cycle, tricycle and pedal cycle manufacturing Aerospace equipment manufacturing and repairing	
PA383 PA384	Locomotives, railway track equipment, railway carriages,	
	wagons and trams	
PA390 PA391	Engineers' small tools and gauges Hand tools and implements	
PA392	Cutlery, spoons, forks and plated tableware, etc.	200720
PA393	Bolts, nuts, screws, rivets, etc. Wire and wire manufactures	
PA394 PA395	Cans and metal boxes	
PA396	Jewellery and precious metals	
	Metal furniture Drop forgings, etc.	
PA399.6	Metal hollow ware	
	Miscellaneous metal manufacture Production of man-made fibres	
PA411 PA412	Spinning and doubling on the cotton and flax systems	
PA413	Weaving of cotton, linen and man-made fibres	
PA414 PA415	Woollen and worsted Jute	
PA416	Rope, twine and net	
	Hosiery and other knitted goods Warp knitting	
PA417.2 PA418	Lace	
PA419	Carpets	
PA421 PA422.1	Narrow fabrics Household textiles and handkerchiefs	1
PA422.2	Canvas goods and sacks and other made-up textiles	
PA423 PA429.1	Textile finishing Asbestos	
PA429.2	Miscellaneous textile industries	
PA431 PA432	Leather (tanning and dressing) and fellmongery Leather goods	
PA433	Fur	
	Weatherproof outerwear Men's and boys' tailored outerwear	
PA442 PA443	Women's and girls' tailored outerwear	
PA444	Overalls and men's shirts, underwear, etc.	
PA445 PA446	Dresses, lingerie, infants' wear, etc. Hats, caps and millinery	
PA449.1	Corsets and miscellaneous dress industries	
PA449.2 PA450	2 Gloves Footwear	
PA461.1	Refractory goods	
PA461.2 PA462	2 Building bricks and non-refractory goods Pottery	
PA462 PA463	Glass	
PA464	Cement	
PA469.1	1 Abrasives 2 Miscellaneous building materials and mineral products	
PA471	Timber	
PA472 PA473	Furniture and upholstery Bedding, etc.	L
PA474	Shop and office fitting	
PA475 PA479	Wooden containers and baskets Miscellaneous wood and cork manufactures	
PA481	Paper and board	
PA482.	1 Cardboard boxes, cartons and fibre-board packing cases 2 Packaging products of paper and associated materials	
PA483	Manufactured stationery	
PA484.		
PA484.: PA485	Printing, publishing of newspapers and periodicals	
PA489	General printing and publishing	
PA491 PA492	Rubber Linoleum, plastics floor-covering, leathercloth, etc.	1
PA493	Brushes and brooms	10.0
PA494. PA494.		1 Mark
PA495	Miscellaneous stationers' goods	
PA496 PA499.	Plastics products 1 Musical instruments	
PA499.	2 Miscellaneous manufacturing industries	
PA500	Construction Gas	1
PA601 PA602	Electricity	
PA603	Water supply	
PA1002	2 Summary tables	

PA311 IRON AND STEEL (GENERAL)

The information in this report relates to establishments classified to the Iron and steel (general) industry, minimum list heading 311 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing wrought iron at wrought iron works, including puddling furnaces, and steel. It includes establishments engaged in the production of pig iron (in integrated steel works), ferro-manganese and spiegeleisen at blast furnaces (including ore preparation plants); making alloy or carbon steel in furnaces or converters; rolling (including re-rolling and cold rolling) steel into semi-finished or finished forms; the production of castings in steel foundries; the production of railway and tramway tyres, wheels and axles, points, switches and crossings, colliery arches; bright bars and heavy forgings; steel plates and sheets (including coated and corrugated sheets) in cut lengths or coils, and of tinplate, terneplate and blackplate and semi-finished material for conversion into tubes and wire. Steel rolls for metal rolling mills and for other machinery are excluded as is the production of tubes, wire, drop forgings, drop stampings and hot pressings.

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

	Unit	1973	1974	1975	1976
Enterprises	Number	365	412	458	517
Establishments	"	499	549	607	661
Sales of goods produced	£ thousand	2,576,607	3,352,097	3,415,189	4,285,024
Receipts for work done and industrial services rendered		(b)	(b)	(b)	16,192
Capital goods produced for establishments' own use	1	6,528	4,314	8,669	10,760
Non-industrial services rendered		5,944	7,222	13,303	8,353
Goods merchanted or factored	"	17,195	19,801	26,781	28,403
Total sales and work done		2,606,274	3,383,435	3,463,943	4,348,733
Increase during the year, work in progress and goods on hand for sale	"	-14,796	143,298	39,377	213,308
Gross output	"	2,591,478	3,526,733	3,503,320	4,562,041
Purchases of materials for use in production, and packaging and fuel		1,574,604	2,137,814	2,325,099	3,187,513
Purchases of goods for merchanting or factoring	"	15,561	16,193	23,979	24,875
Increase during the year, stocks of materials, stores and fuel		31,108	145,766	47,955	190,987
Cost of industrial services received	"	70,151	104,112	94,669	119,015
Net output	"	962,270	1,414,379	1,107,527	1,421,626
Total employment (c)	Thousands	246.7	248.4	241.4	233.0
Net output per head	£	3,900	5,695	4,588	6,102
Payments for non-industrial services					
Rents, hire of plant and machinery (d)(e)	£ thousand	19,783	23,869	24,063	(f)
Commercial insurance premiums	"	4,761	5,111	6,391	8,577
Bank charges	"	552	641	1,115	1,322
Other non-industrial services (g)	"	76,273	93,312	93,798	157,148
Licensing of motor vehicles	"	306	309	474	499
Rates, excluding water rates		23,716	32,116	36,548	41,159
Gross value added at factor cost	"	836,879	1,259,020	945,138	1,212,920
Gross value added at factor cost per head	£	3,392	5,069	3,915	5,206

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 94 per cent of employment within the industry.

- (b) Included in sales of goods produced.
- (c) Average number employed, including full and part-time employees (see table 7) and working proprietors.
- (d) 1973 figures include hire of vehicles.

(e) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £2,521 thousand.

(f) Included in other non-industrial services.

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

TABLE 2

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

					£ thousan
Wegessteed militate (fluorise second)	1973	1974	1975		1976
Land and buildings		. Talioraco	(3) (1) X	(rank	
New building work	20,532	51,848	76,734		70,871
Land and existing buildings					
Acquisitions	1,107	2,421	3,517		1,805
Disposals	2,123	4,481	2,261		779
Vehicles					
Acquisitions					
Motor cars	1,872	2,505)	4,790		0.000
Other vehicles	1,002	2,040)	4,790		6,600
Disposals					
Motor cars	862	853)			
Other vehicles	186) 213)	1,213		1,585
Plant and machinery					
Acquisitions	173,558	273,978	418,377		470,113
Disposals	2,921	3,746	7,137		2,849
Total net capital expenditure	191,979	323,499	492,806		544,177

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 94 per cent of employment within the industry.

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

TABLE 3

(a)

Stocks and work in progress, 1973 - 1976

All United Kingdom establishments classified to the industry (a)

					£ thousand
	1973	1974	1975		1976
			Increase		Value at end of year
Materials, stores and fuel	31,108	145,766	47,955	190,987	651,300
Work in progress	-355	90,395	35,074	137,835	424,542
Goods on hand for sale	-14,441	52,903	4,304	75,473	198,396
Total	16,312	289,064	87,332	404,296	1,274,238

Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 94 per cent of employment within the industry. nd

TABLE 4

PA311

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

4

1 - 10 225	umber Nur		Total (d) Number	Opera- tives	Others (e)	Operatives Total	per	Others (e)	ad work								end of year
	umber Nur				(6)	Total	Dor		Contraction of the second								
	umber Nur	Imber	Number				head	Total	per head			Total	per head	Total	per head		
1 - 10 225				Number	Number	£ thousand	£	£ thousand	£	£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
	5 222	2	1,132)						Adda a								
11 - 19 66	6 65	5) 940)					2005			001.070	75 405					
20 - 49 100	0 98	3) 3,301)	8,196	2,678	24,029	2,932	8,925	3,333	257,128	261,879	75,435	6,787	(j)	(j)	10,314	48,026
50 - 99 83	3 69)) 5,742)						196)								
100 - 199 67	7 59	9	9,759	7,455	2,298	22,408	3,006	7,896	3,436	241,399	246,941	70,804	7,255	128,553(j)	6,158(j)	11,017	45,954
200 - 299 38	8 34	1	8,949	6,747	2,201	19,495	2,889	7,568	3,438	196,425	200,586	61,901	6,917	54,008	6,035	6,382	36,092
300 - 399 21	1 18	3	7,262	5,509	1,748	17,788	3,229	5,963	3,411	121,595	125,568	52,858	7,279	47,790	6,581	9,072	29,808
400 - 499 11	1 10)	4,907	3,691	1,216	12,256	3,320	3,753	3,087	85,136	87,319	28,016	5,709	24,784	5,051	4,392	17,157
500 - 749 9	9 7	7	5,782	4,158	1,624	13,400	3,223	5,582	3,437	107,866	107,958	28,555	4,939	23,932	4,139	4,258	27,241
750 - 999 6	6 6	6	5,273	3,925	1,348	13,797	3,515	5,136	3,810	99,679	105,873	41,923	7,951	38,276	7,259	3,128	32,820
000 - 1,499 10	0 7	7	11,773	8,479	3,294	26,046	3,072	10,705	3,250	202,190	208,426	93,067	7,905	83,747	7,113	6,064	50,010
,500 and over 25	5 8	3	168,171	124,085	44,086	465,922	3,755	187,097	4,244	3,037,314	3,217,490	969,067	5,762	811,831	4,827	489,549	987,131
									ingeline (d) Jan								
										and the second							
									S B.MAY								
									taccione								
									abdatti (24) Surfission								
otal 66	1 517	7	232,991	172,245	60,493	615,141	3,571	242,625	4,011	4,348,733	4,562,041	1,421,626	6,102	1,212,920	5,206	544.177	1,274,238
Total 66'	1 517	7	232,991	172,245	60,493	615,141	3,571	242,625	4,011	4,348,733	4,562,041	1,421,626	6,102	1,212,920	5,206	544,177	1,2

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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	Net capital expenditure	(b)(c)	Net output, gross value added and employment in the region from returns received from establish- ments with more than 80 per cent of their employ ment in the region (d)					
					Net output	Gross value added at factor cost	percenta	ment as a ge of total employment dustry	
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	£ thousand			
Standard regions of England									
North	36.6	15.7	161,846	29.7	*	*	*		
Yorkshire and									
Humberside	71.2	30.6	107,049	19.7	274,472	228,071	77.3		
East Midlands	3.2	1.4	1,823	0.3	11,180	9,901	73.1		
East Anglia	0.3	0.1	131	_	*	*	*		
South East	3.3	1.4	1,179	0.2	11,701	10,541	56.0		
South West	0.9	0.4	385	0.1	2,214	1,867	46.6		
West Midlands	27.0	11.6	16,001	2.9	156,291	136,219	78.6		
North West	6.9	3.0	4,191	0.8	18,057	16,158	41.6		
England	149.4	64.1	292,605	53.8	671,694	573,998	79.2	Q49,200	
Wales	*	1. . .	1.53 (*)	* 367.0	*	*	*		
Scotland	*	*	*	*	*	*	*		
Great Britain	233.0	100.0	544,177	100.0	1,222,273	1,040,853	86.3		
Northern Ireland	-	-	-	-	-	-	-		
Unallocated (e)	-	-	-	~ _ ~	199,353	172,068	_		
United Kingdom (b)	233.0 100 10	100.0	544,177	100.0	1,421,626	1,212,920			

(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.

	FE			
TABL	E D			

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 total returns received	Percentage of total number employed
	to be induced and and	per cent	per cent
1976	April (a)	2.6	0.3
	Мау	2.3	0.3
	June	3.0	2.8
	July	4.1	0.8
	August	1.9	0.2
	September	9.0	3.0
	October	4.6	2.7
	November	1.1	0.0
	December	29.3	6.9
1977	January	8.3	9.1
	February	1.9	0.2
	March (b)	32.0	73.7

From 6th April.

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	
A CONTRACTOR	per cent	per cent	per cent	
Male	91	na loaki _ characteration	91	
Female	7	and a second of	8	

Source: Department of Employment

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 enter-
- prises 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 .

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 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, turn-over, 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 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 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 mainly engaged in the administration of the production units within the scope of the census were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of

production (especially the enterprise analyses of Business Monitor PA1002) related establishments are combined. For these purposes an enterprise oup may be defined as a business consisting of ther a single establishment or two or more establishments under common ownership or control. inging together establishments into enterprise is also necessary for the purpose of aroups suring that there will be no disclosure of the activities of any one enterprise Information about the relationshi group. about relationship of tablishments, the changing structure of groups companies and about common ownership links is ntained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishnts.

REGISTER

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

The inquiries provide a major source of information keeping the register continuously up-to-date act as a check on its detail and structure. the establishments on the register making returns to the quarterly inquiries, the industrial classification is derived from an analysis of their sales of commodities and is reviewed annually. ployment 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 Employnt 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

e 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. creasing use has been made of data on these Il establishments supplied by the Department of ployment. One benefit of using this information an improvement in the estimates of the number of aller establishments and enterprises, but there little effect on other aggregates (e.g. employment, output, net capital expenditure).

Coverage

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.

Regions

e regions defined in Table 5 take account of the undary changes arising out of the Local vernment Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in ril 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 of return, whether full-time or part-time loyees. 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

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

Employees office employees. earners.

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

Operatives include all other classes of employees, that is, broadly speaking, all manual wage 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

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

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.

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

Cost of industrial services

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

Cost of non-industrial services

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

Gross output

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

Net output

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

Net output per head

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

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of 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 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 covered by the establishment's return. of goods to the establishment from another depart. of the same firm not covered by the ment 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 show 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 the cost of goods purchased, the cost is entered a c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuse means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building wor and machinery or other capital items produced b establishments for hiring out or leasing an regarded as sales, the value included in the return being that adopted in the establishments capital asset accounts. Forward sales and cantee takings are excluded. All sales in the period o the inquiry are included irrespective of when the goods were manufactured. Goods produced in on Wages and salaries establishment and transferred either to ancillar These are amounts paid during the year to departments not engaged in production for whic there are separate accounts, or to anothe clerical employees. Payments to working establishment of the same firm not covered by the proprietors, whether called salaries or not, are return, are treated as sales by the producine excluded. The values shown include all overtime establishment and valued as far as possible as they had been sold to an independent purchaser Goods transferred to wholesale or retail selling Goods transferred to wholesale or retail set in the value of redundancy payments less any amounts organisations, for which separate accounts a reimbursed from Government sources is included. 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 a ex-works or delivered basis, after any train discounts and agents' commissions have be deducted. The cost of packing materials les allowance for returnable cases is included. industries where products attract Excise Duty # duty-paid and exclusive of duty if sold in bond exported.

Work done and industrial services rendered Figures for work done represent the amount charge tor work carried out on materials supplied by earnings related basic contributions under customer and include repair work. Within certa for work carried out on materials supplied by

ndustries this heading covers a wide variety of ctivities, for example, within the food sector utter packed on commission; within the textile ndustries - making up of garments, fur dressing nd textile finishing; within printing and pubishing - preparatory work on type-setting, block aking and binding. Work done is also significant n the electrical machinery and heavy engineering ndustries, covering erection, installation and repair and jobbing work. Other activities within his heading include exploration work, research and development, glass cutting and dressing and planing f 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.

on-industrial services rendered

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

Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without having been subjected to any anufacturing 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 erchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not sually sold or transferred to another establishment without further processing. The values nclude the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to subcontractors are excluded and progress payments received from other organisations are not deducted.

operatives and to administrative, technical and payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. 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 industries where products attract Excise Dury appear on the establishment's payroll are included. Value stated is usually inclusive of duty if sold in bond Amounts paid to outworkers by sub-contractors are excluded.

Employers' insurance and welfare contributions This item includes employers' contributions to national insurance and graduated pensions (and/or the

included.

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

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