

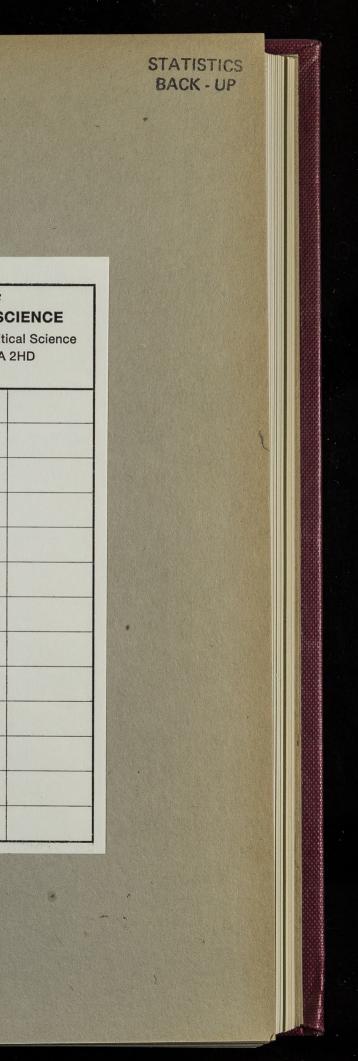
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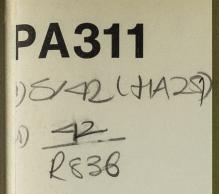


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# 1974 & 75

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- 9 MAY 1979 OF POLITICAL AND ECONOMIC SCIENCE **Business Statistics Office** 

# **Business Monitor**

## Report on the Censuses of Production

Iron and steel (general)



A publication of the Government Statistical Service

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# **PA311**



# **Report on the Censuses of Production** 1974 & 75

## 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)

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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).

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#### 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 or 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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Radio, radar and electronic capital goods

Electrical appliances primarily for domestic use

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#### TABLE 1

#### Output and costs, 1971-1975

All United Kingdom establishments classified to the industry (a)

	Unit	1971	1972	1973	1974	1975
Enterprises (b)	Number	342	339	365	412	458
Establishments (b)		483	467	499	549	607
Sales of goods produced, work done and industrial services rendered (c)	£ thousand	and seed on a set	[]	2,576,607	3,352,097	3,415,189
Capital goods produced for establishments' own use(d)		1,899,819	2,109,248	6,528	4,314	8,669
Non-industrial services rendered (e)	"	s al re activity sidi		5,944	7,222	13,303
Goods merchanted or factored	"	14,592	]	17,195	19,801	26,781
Total sales and work done (c) (e)	"	1,914,411	2,109,248	2,606,274	3,383,435	3,463,943
ncrease during the year, work in progress and goods on hand for sale		-23,470	22,419	-14,796	143,298	39,377
Gross output (c) (e)	"	1,890,941	2,131,667	2,591,478	3,526,733	3,503,320
Purchases of materials for use in production, and packaging and fuel (d)		1,205,890	1,377,915	J1,574,604	2,137,814	2,325,099
Purchases of goods for merchanting or factoring (d)	]			15,561	16,193	23,979
ncrease during the year, stocks of naterials, stores and fuel		-17,370	27,084	31,108	145,766	47,955
Cost of industrial services received (f)		16,868	15,716	70,151	104,112	94,669
Net output	"	650,812	765,120	962,270	1,414,379	1,107,527
Fotal employment (g)	Thousands	264.5	248.4	246.7	248.4	241.4
Net output per head	£	2,461	3,080	3,900	5,695	4,588
Payments for non-industrial services (h)						
Rents, hire of plant and machinery (j)	£ thousand			19,783	23,869	24,063
Commercial insurance premiums				4,761	5,111	6,391
Bank charges				552	641	1,115
Other non-industrial services	"			76,273	93,312	93,798
icensing of motor vehicles(k)	"	•		306	309	474
ates, excluding water rates (k)				23,716	32,116	36,548
Gross value added at factor cost				836,879	1,259,020	945,138
Gross value added at factor cost	banali mont ce			ter and the set of the		

(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 5 per cent. For 1974, the comparable figures were 1 per cent and 4 per cent respectively.

(b) Increase from 1973 to 1974 and 1974 to 1975 largely attributable to improved estimates of the number of establishments with less than 20 employees – see notes on page (iii).

(c) The figures for 1971-1972 do not include receipts for repairs and maintenance.

(d) Not recorded separately for 1971-1972.

(e) The figures for 1971-1972 do not include revenue from rents for industrial buildings.

(f) The figures for 1971-1972 exclude the amounts payable for repairs and maintenance.

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

(h) Not collected for 1971-1972 except for amounts payable to other organisations for transport of goods within the United Kingdom.

(j) For 1973 the figures include hire of vehicles.

(k) Not collected for 1971-1972.

#### TABLE 2

PA311 2

Capital expenditure, 1971-1975 All United Kingdom establishments classified to the industry (a) (b)

1971 1972 Land and buildings 51,407 40,870 New building work Land and existing buildings 559 1,158 Acquisitions 1940 1.109 Disposals Vehicles Acquisitions Motor cars (c) 3,632 3,985 Other vehicles (c) Disposals Motor cars (c) 979 991 Other vehicles (c) Plant and machinery Acquisitions 190,787 163,749 2,676 3,049 Disposals 241,622 203,781 Total net capital expenditure (d)

(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
L'ANNA BRANK LANN PROV	1971	1972	1973	1974	197	75
		Increa	ase		and and some set	Value at end of year
Materials, stores and fuel	-17,370	27,084	31,108	145,766	47,955	459,580
Work in progress	-19,397	21,772	-355	90,395	35,074	277,421
Goods on hand for sale	-4,073	648	-14,441	52,903	4,304	118,505
Total	-40,840	49,503	16,312	289,064	87,332	855,505

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

PA 311 3

		inder Berline	£ thousand
_	1973	1974	1975
	20,532R	51,848	76,734
	1,107	2,421	3,517
	2,123	4,481	2,261
ſ	1,872	2,505	4,790
1	1,002	2,040	5 4,750
c			1
Į	862	853	1,213
l	186	213	J
	173,558R	273,978	418,377
	2,921	3,746	7,137
	191,979R	323,499	492,806

se, and establishments exempted by virtue of size. had not commenced before the end of the

#### PA311 4

a care

#### Analysis of establishments by size, 1975 All United Kingdom establishments classified to the industr

All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab- lish- ments	Enter- prises (c)	Employment			Wages and salaries (e)			
			Total (b)	Opera- tives	Others (d)	Operatives		Others (d)	
	AB-2008					Total	per head	Total	per head
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£
1 - 10	192	190	975	]					
11 - 19	63	60	910						
20 - 49	85	81	2,849	7,332	2,184	18,687	2,549	6,366	2,915
50 - 99	75	67	5,018	J					
100 - 199	72	59	10,311	7,873	2,432	20,755	2,636	7,149	2,940
200 - 299	30	26	7,262	5,634	1,628	13,814	2,452	4,893	3,005
300 - 399	22	20	7,604	5,705	1,894	15,790	2,768	5,692	3,005
400 - 499	13	13	5,786	4,447	1,339	11,693	2,629	3,717	2,776
500 - 749	9	9	5,508	4,096	1,412	11,816	2,885	4,230	2,996
750 - 999	10	8	8,673	6,454	2,219	19,870	3,079	7,026	3,166
1,000 - 1,499	10	8	12,424	8,934	3,490	24,478	2,740	9,998	2,865
,500 and over	26	8	174,094	126,889	47,205	403,628	3,181	179,377	3,800

Total	607	458	241,414	177,364	63,803	540,532(j)	3,048	228,447(j)	3,581
	Mar Markelland	State State							

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

(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 £129,243 thousand. For 1974, the comparable figure was £78,969 thousand. In addition, the remuneration of outworkers on returns received was £81 thousand for 1974 and £28 thousand for 1975.

Total sales and work done (f)	Gross output Net output			Gross value added at factor cost		Net capital expenditure (g)	Total stocks and work in progress at end of year
	n spose A liberou arrea a zo - hurou ar operana Ar <u>ea arc ar</u>	Total	per head	Total	per head	24 24	
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
		,					
156,727	156,819	53,051	5,440	(h)	(h)	5,325	25,670
193,662	195,248	60,518	5,869	100,182(h)	4,993(h)	8,051	32,379
123,880	124,378	39,650	5,460	34,669	4,774	3,851	18,082
113,142	114,788	46,045	6,055	42,015	5,525	8,545	21,746
81,037	82,586	25,572	4,420	22,896	3,957	2,901	12,306
69,567	70,157	24,019	4,361	20,792	3,775	2,792	14,573
156,306	160,254	46,095	5,315	40,493	4,669	8,658	41,071
137,750	138,320	50,052	4,029	42,868	3,450	2,113	33,509
2,431,873	2,460,770	762,525	4,380	641,222	3,683	450,572	656,169

3,463	,943	3,503,320	1,107,527	4,588	945,138
(f)		es sales of goods pro ne, industrial and no			
(g)	New bui	lding work plus acqu	isitions less disp	osals of land ar	nd existing buildings
(h)	Gross va	lue added data relate	es to establishme	nts employing	1-199 persons.
(j)	The estin	mates of total wages	and salaries for t	the industry in	1974 were:-
					£'000
	C	peratives			451,444
	C	)thers			173,320

PA311 5

3,915

492,806

855,505

ildings constructed by establishments for their own use), or factored.

ngs, vehicles and plant and machinery.

#### TABLE 5

PA311 6

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

Area	Employment (a)		Net capital expenditure (b)(c)		Net output and employment in the region of establishments with more than 80 per cent of their 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	
Particle C. T. A.	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	and the second second by	
Standard regions of England							
North	39.0	16.2	128,061	26.0	204,655	94.5	
Yorkshire and Humberside	72.4	30.0	158,790	32.2	298,063	79.2	
East Midlands	3.2	1.3	1,735	0.4	10,313	67.3	
East Anglia	0.1	0.1	* 10 Million *	1 - 034 A 4 - 1 08	•	•	
South East	3.0	1.2	796	0.2	8,002	50.7	
South West	1.0	0.4	267	0.1	•	ARE DESCRIPTION OF THE PERSON	
West Midlands	27.4	11.4	21,061	4.3	120,757	74.9	
North West	7.1	2.9	•		14,328	43.2	
England	153.1	63.4	309,009	62.7	659,734	79.8	
Wales	•		•	•	•	•	
Scotland	•	•	•	•	•	•	
Great Britain	241.4	100.0	492,806	100.0	907,693	86.4	
Northern Ireland	-	-	-	-	-		
United Kingdom	241.4	100.0	492,806	100.0	1,107,527(e	1	

(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 £199,834 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.

#### TABLE 6

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

Accounting year ended		Percentage of total returns received
	Endotra Information Party Information	per cent
1975	April (a)	2.8
	Мау	1.6
	June	6.4
	July	2.8
	August	0.8
	September	10.1
	October	2.4
	November	0.4
	December	26.1
1976	January	7.6
1970	February	1.6
	March (b)	37.4
	March (b)	57.4
		100.0

#### (a) From 6th April.

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

A . Experiences Smith Mary International and

#### 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	91	and tenders There are a laborated	91	
Female	7	2	9	
	98	2	100	

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

per cent	
0.4	
0.2	
3.3	
0.6	
0.1	
5.3	
0.2	
0.0	
6.5	
8.1	
0.3	
75.0	

Source: Department of Employment

#### TABLE 8

#### PA311 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

Does not apply

For this industry, the quarterly inquiry into manufacturers' sales has not yet commenced.

#### TABLE 9

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

re and manganese ore	
par	
ores, concentrates and residues not elsewhere sp	pecified
nd steel in all forms except finished parts, wire a	and scrap
n	
Basic pig iron, haematite, foundry and other pig iron	1
Castings (including malleable cast iron tube fitt	ings)
el products	
Ingots, blooms, billets, slabs (including sheet ar mill slabs)	nd plate
Bars and rods (including wire rods), angles, sha pillars rolled (not fabricated)	pes, sections, girders, bea
Tube rounds and squares	
Hoop and strip (including cable tapes)	
Hot rolled coil from wide continuous mills	
Plates 3mm thick and over	

Sheets under 3mm thick (including electrical sheets)

Steel tubes

Materials for use in production

Limestone and dolomite

Lime Iron or Fluors Other Iron ar Iro

Ste

Tube hollows and tube shells

Wrought tube purchased for further fabrication

Fittings for tubes (including flanges)

Other steel products not elsewhere specified e.g. forgings (other than drop but excluding finished parts, wire and scrap

Iron and steel scrap

Blast furnace ferro-manganese and spiegeleisen Light metals and non-ferrous metals in all forms except finished goods, wire an

Aluminium and aluminium alloys

Nickel and nickel alloys

Zinc and zinc alloys

Tin

Other ferro-alloys and finishing materials including other base metals not e specified

Synthetic resins and plastics materials (excluding leathercloth and reinforced p

Polyethylene, polypropylene and copolymers: granules, moulding and extr Other synthetic resins and plastics materials e.g. polyvinyl chloride, polysty

Paint, varnish, lacquers, stains and enamels

Inorganic chemicals (including gases)

Oxygen

Acids

Other inorganic chemicals e.g. nitrogen

	Qu	uantity	Value	
			£ thousar	nd
		Th tonnes		
		1,753	5,104	
			8,306	
		14,862	146,119	
	r		606	
	{	311 	4,990 6,230	
	Ĺ		a succession of the	
	٢	506	21 522	
	1	506 	21,523 293	
	-	62.9	7,459	
	٢	2,953	229,485	
, joists and	1		26,202	
, joista and		550	66,922	
		2.1	820	
		79.9	10,532	
		1,959	216,421	
		10.0	1,153	
		108	11,742	
	ł	1.6	362	
	ł		339	
	{	0.1	17 6	
	Ì	0.7	136	
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ings)		10.3 	4,557 4,630	
		7,047	230,145	
		32.3	4,271	
rap	٢	10.6	4,698	
	1		511	
	5	24,0	13,056	
	l	•••	4,329	
			10,315 25,425	
here				
tics)			75,767	
on compounds		1.0	359	
ne, etc.		1.6	1,389	
	-	Th litres		
	{	3,395 	2,366 316	
			15,737	
		Th tonnes	a service of	
	{	136	1,828	
	L		587	
			1,051	

#### TABLE 9 (continued)

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#### 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
terials for use in production (continued)		
Organic chemicals (including gases) e.g. tars and pitches, other than for fuel		383
		4,022
Other chemicals (e.g. mixtures and compounds for specific end uses, fluxes)		34,300
Bricks, fireclay and refractory products including fettling materials	( 105	2,644
Moulding and core sand	405	1,649
Moulding and core materials and binders not elsewhere specified		2,801
		508
Wire and wire manufactures (excluding insulated wires and cables)		1,111
Ball and roller bearings	recompletion of the second	1,915
Bolts, nuts, screws, rivets, etc.		1,915
Pottery, glass, porcelain and other ceramics e.g. tiles	en protestaria anti-tara	120
Processed and semi-processed items of wood (excluding furniture and packaging materials) i.e. softwood and hardwood sawn or planed; wood and cork manufactures; plywood, blockboard,	·	
laminboard and battenboard		949
Manufactures wholly or mainly of natural or synthetic rubber, balata and gutta-percha including		
sheeting, but excluding replacement parts for the firms' own machinery, plant, vehicles, etc.		127
Furnace electrodes		10,179
Water charges	••	3,095
	Th gal	
	5,106	3,516
Lubricating oils and greases (i.e. mineral, animal and vegetable); sheet rolling oil	Th cwt	102
	20	192 925
	<b>,</b>	
tionery and printed matter		
Centingen		2,817
Stationery		2,017
Catalogues, price lists, etc.		221
kaging materials (including materials for the manufacture of the firms' own packaging)		
		2014
Packaging products wholly or mainly of wood, and wood for conversion into packaging products	with anticit will signate	2,914
Jute and hessian piece goods, sacks and bags	•	216
All other packaging materials	e and a construction of a	4,648
el and electricity		
	Th tons	150.004
Coal	8,705	156,264
Coke (including breeze and manufactured fuel)		61,059
	Th gal	0.50-
Derv fuel and motor spirit	5,677	2,527
Fuel oil		79,989
	Th tons	2 Page
Liquefied petroleum gases (e.g. propane, butane, etc.)	36.1	2,037
and and a second se	Th therms	100
Coke oven gas	62,044	3,138
	243,285	10,181 3,167
Town gas (including natural gas bought from the gas industry)	ť "	
		125
Town gas (including natural gas bought from the gas industry) Blast furnace gas	Th kWh	70 000
Blast furnace gas		78,683
Blast furnace gas	8,305,777	
Blast furnace gas		
Blast furnace gas Electricity All other fuels	8,305,777	
Blast furnace gas Electricity All other fuels	8,305,777	
Blast furnace gas Electricity All other fuels placement parts and consumable tools	8,305,777	586
	8,305,777	586
Blast furnace gas Electricity All other fuels placement parts and consumable tools Tyres and other spare parts for the firms' own road vehicles Replacement parts for the firms' own machinery, plant and equipment	8,305,777	586 1,713 51,343
Blast furnace gas Electricity All other fuels placement parts and consumable tools Tyres and other spare parts for the firms' own road vehicles	8,305,777	586 1,713 51,343 39,468
Blast furnace gas Electricity All other fuels placement parts and consumable tools Tyres and other spare parts for the firms' own road vehicles Replacement parts for the firms' own machinery, plant and equipment	8,305,777	1,713 51,343 39,468 24,445

Indus	trial services received
R	epairs and maintenance to
	Buildings
	Road goods vehicles
	Plant and machinery
v	/ork done on materials given out
С	)ther
Non	industrial services received
F	Rent of buildings, hire of plant and machinery
C	Commercial insurance premiums
	Bank charges
F	Postage, telephone, telegrams, cables and telex
-	Fransport
	Road
	Rail and other means (excluding postal services)
,	Other
	a) Included with plant and machinery.
	<ul> <li>b) Included with work done on materials given out</li> </ul>

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	PA311 11	
·		
	£ thousand	
	90,090	
	5,471	
	(a)	
	54,245	
	30,374	
	(b)	
	109,463	
	22,852	
	3,888	
	452	
	2,302	
	37,491	
	23,523	
	18,955	

#### Notes

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

#### GENERAL INFORMATION

#### Changes made for 1974 and 1975

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

News No. 13 May 1971. activities in their return. lishments. THE REGISTER

which it comprises.

Statistical units

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

Efforts are made by the Business Statistics Office to ensure, by negotiating with respondents, that the return from an establishment does not cover local units or addresses in more than one of the countries of the United Kingdom.

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical

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

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 estab-

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

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, trade-marks, 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.

#### Purchases

Purchases include the cost of raw materials, components, semi-manufactured goods and workshop materials: of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

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

Sales of goods produced, work done and industrial services rendered

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them are included; as also are sales of waste products. Any new building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishment's capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production and for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same 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

exported.

capital nature.

by the seller.

Wages and salaries 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.

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.

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

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

#### 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

#### 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.

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.

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