**PA331** 

(42 (HA 251)

12 R834

1974 & 75

**Business Statistics Office** 

# **Business Monitor**

Report on the Censuses of Production

Agricultural machinery (except tractors)

BRITSH LIBRARY OF POLITICAL SCIENCE

**HMSO** 



A publication of the Government Statistical Service

#### Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports are being numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

#### **Government Statistical Service**

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics division of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

Enquiries:
Business Statistics Office
Newport, Gwent
NPT 1XG
Newport 56111 (STD code 0633) ext 2455
Telex 497121
Answer Back BSONPT G

# **PA331**

# **Business Monitor**

A publication of the Government Statistical Service

Report on the Censuses of Production 1974 & 75

# Agricultural machinery (except tractors)

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

PA211

PA212

PA213

PA214

PA215

PA216

PA217

PA219

PA221

PA231

PA261

PA274

PA312

PA321

PA322

PA331

PA332

PA1001 Introductory notes
PA101 Coal mining
PA102 Stone and slate quarrying and mining

Petroleum and natural gas Miscellaneous mining and quarrying

Milk and milk products

Animal and poultry foods

PA229.2 Starch and miscellaneous foods

PA239.1 Spirit distilling and compounding

Lubricating oils and greases

Brewing and malting Soft drinks

PA239.2 British wines, cider and perry

Toilet preparations

Soap and detergents

Dyestuffs and pigments

PA279.2 Formulated adhesives, gelatine, etc.

Iron and steel (general)

synthetic rubber

PA279.3 Explosives and fireworks

PA279.4 Formulated pesticides, etc.

Iron castings, etc.

Fertilizers

Margarine

Tobacco

PA271.1 Inorganic chemicals

PA271.2 Organic chemicals

Paint

PA278 Fertilizer: PA279.1 Polishes

Grain milling
Bread and flour confectionery

Chalk, clay, sand and gravel extraction

Bacon curing, meat and fish products

Vegetable and animal oils and fats

Coke ovens and manufactured fuel Mineral oil refining

PA271.3 Miscellaneous chemicals
PA272 Pharmaceutical chemicals and preparations

Synthetic resins and plastics materials and

Cocoa, chocolate and sugar confectionery Fruit and vegetable products

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

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

Motor vehicle manufacturing

PA381.2 Trailers, caravans and freight containers Motor cycle, tricycle and pedal cycle manufacturing Aerospace equipment manufacturing and repairing

PA384 Locomotives, railway track equipment, railway carriages, wagons and trams

PA390 Engineers' small tools and gauges PA391

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

Bolts, nuts, screws, rivets, etc. Wire and wire manufactures Cans and metal boxes PA394

PA395 PA396 Jewellery and precious metals

Metal furniture PA399 1

PA399.8 Miscellaneous metal manufacture

PA412

Woollen and worsted

PA416

Rope, twine and net

PA418 Lace

PA422.2 Canvas goods and sacks and other made-up textiles PA423 Textile finishing

PA429.2 Miscellaneous textile industries

Leather (tanning and dressing) and fellmongery

PA279.6 Surgical bandages, etc. PA279.7 Photographic chemical materials

PA442 Men's and boys' tailored outerwear

Women's and girls' tailored outerwear Overalls and men's shirts, underwear, etc.

Agricultural machinery (except tractors) Footwear

Metal-working machine tools PA450 Pumps

Valves

Steel tubes

Compressors and fluid power equipment

Copper, brass and other copper alloys Miscellaneous base metals

Industrial engines PA335

Textile machinery and accessories

Aluminium and aluminium alloys

Construction and earth-moving equipment

Mechanical handling equipment PA338

Office machinery PA339.1 Mining machinery

PA339.2 Printing, bookbinding and paper goods machinery

PA339.3 Refrigerating machinery, space-heating, ventilating and air-conditioning equipment

PA339.5 Scales and weighing machinery and portable power tools PA339.7 Food and drink processing machinery and

packaging and bottling machinery

PA339.9 Miscellaneous (non-electrical) machinery Industrial (including process) plant and steelwork

Ordnance and small arms Ball, roller, plain and other bearings PA349.2 Precision chains and other mechanical engineering

Photographic and document copying equipment PA352 Watches and clocks

Surgical instruments and appliances PA354 Scientific and industrial instruments and systems

PA361 Electrical machinery Insulated wires and cables PA363 Telegraph and telephone apparatus and

equipment Radio and electronic components

Gramophone records and tape recordings
Broadcast receiving and sound reproducing PA365.2

PA366 Electronic computers Radio, radar and electronic capital goods Electrical appliances primarily for domestic use PA368

PA399.5 Drop forgings, etc. PA399.6 Metal hollow-ware Production of man-made fibres Spinning and doubling on the cotton and flax systems Weaving of cotton, linen and man-made fibres PA413 PA415 Jute

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

PA419 Carpets Narrow fabrics PA421

Household textiles and handkerchiefs

PA431

PA432 Leather goods

PA433

Weatherproof outerwear

PA443

PAMA Dresses, lingerie, infants' wear, etc. PA446 Hats caps and millinery

Corsets and miscellaneous dress industries PA449.2 Gloves

Refractory goods PA461.2 Building bricks and non-refractory goods PA462 Pottery

PA463 Glass PA464 Cement PA469.1 Abrasives

Miscellaneous building materials and mineral products PA471 Timber

Furniture and upholstery PA472 Bedding, etc.
Shop and office fittings
Wooden containers and baskets PA473 PA474

PA479 Miscellaneous wood and cork manufactures

PA481 Paper and board Cardboard boxes, cartons and fibre-board packing cases Packaging products of paper and associated materials

PA483 Manufactured stationery Wallcoverings PA484.2 Miscellaneous manufactures of paper and board PA485

Printing, publishing of newspapers and periodicals General printing and publishing PA491 Rubber

Linoleum, plastics floor-covering, leathercloth, etc. PA492 Brushes and brooms PA494 1 Toys, games and children's carriages

PA494.3 Sports equipment PA495 Miscellaneous stationers' goods PA496 Plastics products

PA499.1 Musical instruments PA499.2 Miscellaneous manufacturing industries PA500 Construction

PA601 Gas Electricity PA603 Water supply Summary tables Manufacturing agricultural machinery and implements (including self-propelled agricultural machinery) such as ploughs, harrows, combine

The information in this report relates to establishments classified to the Agricultural machinery (except tractors) industry, minimum list

heading 331 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

PA331 AGRICULTURAL MACHINERY (EXCEPT TRACTORS)

harvesters, elevators, etc. The manufacture of milking machines is included but industrial dairy machinery and appliances, tractors and hand tools such as spades are excluded. Specialist repairers of agricultural machinery are also excluded.

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

#### LIST OF CONTENTS

Table No	Title	Page	
1	Output and costs, 1971-1975	PA331	2
2	Capital expenditure, 1971-1975	PA331	3
3	Stocks and work in progress, 1971-1975	PA331	3
4	Analysis of establishments by size, 1975	PA331	4-5
5	Regional distribution of employment, net capital expenditure and net output, 1975	PA331	6
6	Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1975	PA331	7
7	Percentage analysis of employees, by full and part-time employment and sex, 1975	PA331	7
8	Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1974-1975	PA331	8
9	Purchases by establishments employing 25 or more persons, classified to the industry, 1974		
	Analysis of returns received, United Kingdom	PA331	9-1
10	Payments to other organisations for certain services received by returns received in respect of establishments with 300 or more employees, 1974	PA331	11

Output and costs, 1971-1975

All United Kingdom establishments classified to the industry (a)

	Unit	1971	1972	1973	1974	1975
Enterprises (b)	Number	503	455	510	559	576
Establishments (b)	and the second	533	479	531	582	598
Sales of goods produced, work done and industrial services rendered (c)	£ thousand			148,270	184,745	200,058
Capital goods produced for establishments' own use (d)		- 112,093	122,991	281	320	111/
Non-industrial services rendered (e)	)			261	296	544
Goods merchanted or factored		24,740	19,637	26,608	36,483	35,378
Total sales and work done (c)(e)		136,834	142,628	175,420	221,844	236,092
Increase during the year, work in progress and goods on hand for sale		643	-481	4,531	11,510	16,504
Gross output (c)(e)		137,477	142,147	179,951	233,355	252,596
Purchases of materials for use in production, and packaging and fuel (d)		77.707	70.100	81,880	108,376	112,292
Purchases of goods for merchanting or factoring (d)	5	- 77,767	76,133	23,346	27,564	28,747
Increase during the year, stocks of materials, stores and fuel		319	1,027	5,747	10,274	-184
Cost of industrial services received (f)		1,198	1,694	2,749	3,987	4,479
Net output		58,831	65,347	77,724	103,702	106,893
Total employment (g)	Thousands	24.0	21.7	22.6	23.3	23.0
Net output per head	£	2,451	3,011	3,442	4,456	4,646
Payments for non-industrial services (h)						
Rents, hire of plant and machinery (i)	£ thousand			558	996	1,489
Commercial insurance premiums				672	790	1,056
Bank charges				132	144	164
Other non-industrial services				4,726	5,451	8,568
Licensing of motor vehicles (k)	. }		<	91	88	128
Rates, excluding water rates (k)	,,			1,038	1,558	2,220
Gross value added at factor cost				70,506	94,675	93,269
Gross value added at factor cost per head	£			3,122	4,068	4,054

- (a) For 1975, estimates for establishments employing less than 20 persons accounted for 14 per cent of the total employment of the industry. Estimates for unsatisfactory returns and non-response accounted for 23 per cent. For 1974, the comparable figures were 13 per cent and 20 per cent respectively.
- (b) Increase from 1972 1973 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.
- 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.

Capital expenditure, 1971-1975

TABLE 2

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

				930.3		£ thousand	
The state of the s		1971	1972		1973	1974	1975
Land and buildings		78 TE	- 6 1000 2001	(d)			
New building work		1,227	729		1,242	1,993	2,117
Land and existing buildings							
Acquisitions		102	194		820	330	392
Disposals		1,354	572		95	87	71
Vehicles							
Acquisitions	00000			(	000	700	7
Motor cars (c)	}	1,020	1,092	1	699	763	929
Other vehicles (c)	J			080	320	319	) 04 08
Disposals							
Motor cars (c)	1			1	264	262	] 222
Other vehicles (c)	}	380	415	1	50	39	329
Plant and machinery	(Box			90% 1.4 GB			43 STREET, SOR
Acquisitions		2,249	2,041		2,986	3,783	3,979
Disposals		975	188		185	293	771
Total net capital expenditure (c	4)	1,890	2,882		5,474	6,506	6,246

(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
Travida in Street and the America	1971	1972	1973	1974	1975	ESSA TOS
	attiva <mark>s sanas anima</mark>	Increa	se	ed acresmosticismismis	concerns of set in	Value at end of year
Materials, stores and fuel	319	1,027	5,747	10,274	-184	29,166
Work in progress	-139	1,852	3,169	2,003	6,795	26,577
Goods on hand for sale	782	-2,333	1,362	9,507	9,709	32,831
Total	962	546	10,278	21,784	16,320	88,574

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

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

Size group	Estab- lish-	Enter- prises		Employment			Wages and salaries (e)			
(b)	ments	(c)	Total (b)	Opera- tives	Others (d)	Operatives		Others (d)	13 (528) (50)	
704 E. 200 E	(1000, 7)	\$45.1 	92) 80 <u></u>		955.	Total	per head	Total	per head	
	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 10	200	88	. 744							
1 - 10	388	384	1,741							
11 - 19	107	105	1,513	3,784	1,389	8,362	2,210	3,966	2,855	
20 - 49	46	46	1,371	3,764	1,369	0,302	2,210	3,966	2,655	
50 - 99	15	15	1,030							
100 - 199	23	23	3,300	2,397	895	5,405	2,255	2,757	3,081	
200 - 299	4	4	1,053	755	298	1,798	2,381	797	2,673	
300 - 399	5	5	1,700	1,104	596	2,645	2,396	1,837	3,083	
100 - 749	5	5	2,728	1,811	917	4,165	2,300	2,408	2,626	
750 and over	5	5	8,573	5,862	2,711	15,725	2,683	7,056	2,603	

Total	598	576	23,009	15,713	6,806	38,099(j)	2,425	18,821(j)	2,765

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

Total sales and work done (f)	Gross outpu	t Net output	da) ancarmas	Gross value added at factor cost	p. 642.	Net capital expenditure (g)	Total stocks and work in progress at end of year
See a large	recement appropriation of the state of the s	Total	per head	Total	per head		
£ thousand	£ thousand	£ thousand	£	£ thousand	£	£ thousand	£ thousand
59,357	61,084	26,661	4,714	(h)	(h)	1,686	16,287
37,525	38,591	17,753	5,380	38,431(h)	4,292(h)	938	12,424
9,126	9,259	4,888	4,642	4,325	4,107	182	2,912
19,960	20,857	9,553	5,619	7,965	4,685	552	6,689
25,357	27,654	12,163	4,458	10,628	3,896	464	11,406
84,767	95,151	35,876	4,185	31,920	3,723	2,425	38,855

236,092	252,596	106,893	4,646	93,269	4,054	6,246	88,574	

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

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

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

	£'000
Operatives	29,515
Others	15,247
Others	15,24

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

<sup>(</sup>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.

<sup>(</sup>d) Administrative, technical and clerical employees.

<sup>(</sup>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 £7,045 thousand. For 1974, the comparable figure was £4,576 thousand.

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

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

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

Area	Employmer	et (a)	Net capital e	xpenditure (b)(c	of establishr	Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (d)		
						Average number employed as a percentage of total average number employed in the industry in the region		
formation 3	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	£ thousand	unacent Possient	SARKETER S	
Standard regions of England								
North	0.6	2.6		3,303,6	Palaton _	A80,0935005	title.	
Yorkshire and Humberside	2.0	8.9	513	8.2	5,196	59.9		
East Midlands	1.0	4.5	211	3.4	2,064	51.3		
East Anglia	6.3	27.4	2,033	32.6	19,019	54.3		
South East	3.3	14.5	1,420	22.7	10,723	65.8		
South West	2.2	9.4	386	6.2	6,223	53.5		
West Midlands	3.5	15.1	769	12.3	NACONAL 10	*		
North West	0.5	2.1	•	•	•			
England	19.4	84.5	5,352	85.7	48,882	49.6		
Vales	0.6	2.6	395	6.3	•	•		
Scotland	2.8	12.1	452	7.2		•		
Great Britain	22.8	99.2	6,198	99.2	59,722	52.8		
Northern Ireland	0.2	0.8	48	0.8	454	67.7		
Jnited Kingdom	23.0	100.0	6,246	100.0	106,893(e)			

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

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

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

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

(e) Includes £46,718 thousand of unallocated net output of establishments covering addresses in two or more regions, plus estimates for unsatisfactory returns, non-response, and establishments employing less than 20 persons.

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

Account	ting year ended	Percentage of total returns received	Percentage of total number employed
		per cent	per cent
1975	April (a)	o.0	0.0
975	May	1.6	0.3
	June	3.1	3.3
	July	7.8	9.5
	August	1.6	0.7
	September	7.8	2.5
	October	7.8	12.4
	November	3.1	16.0
	December	35.9	17.3
1976	January	12.5	21.5
	February	1.6	1.2
	March (b)	17.2	15.3
		100.0	100.0

(a) From 6th April.

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

TABLE 7

TABLE 6

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

Sex	Full-time	Part-time	All employees	
the medican and translation, short of	per cent	per cent	per cent	Name of the last
Male	86	1	87	
Female	11	2	13	
	97	3	100	

Source: Department of Employment

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

Manufacturers' sales of the principal products of the Agricultural machinery, (except tractors) industry are published regularly in Business Monitor PQ331. Details of sales for 1974 will be found in the monitor for third quarter 1976 published February 1977 and for 1975 in the third quarter 1977 issue published December 1977.

Quarterly Business Monitors are available from HMSO by annual subscription.

TABLE 9

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

	Quantity	Value	
	-	£ thousan	
terials for use in production			
Iron and steel in all forms except finished parts, wire and scrap			
Iron			
Pig iron, including refined pig iron, and other irons for remeiting	geriani is grown ask	267	
	Th tonnes 5.5	1,811	
Castings	]	424	
Steel products	36.8	5,424	
Ingots, blooms, billets, slabs, bars and rods, shapes, sections, tube rounds and squares	1	882	
Plates 3 mm thick and over	24.9	3,168	
Sheets under 3 mm thick (including electrical sheets)	. In account of	2,484	
Hoop and strip (including tapes of all thicknesses)	5.2	616	
Forgings (excluding drop forgings)	0.8	278	
Drop forgings	1.9	531 98	
Castings	1.1	487 635	
	(		
Steel tubes and fittings, including welded and seamless tubes, conduits, etc.	8.6	1,614 359	
Other steel products except finished parts, wire and scrap		1,606	
Light metals and non-ferrous metals in all forms except finished goods, wire and scrap			
Aluminium and aluminium alloys		267	
Other light metals and non-ferrous metals and their alloys, e.g. copper, cadmium copper,			
brass, lead, solder, zinc, etc.	The Utage	570	
Paint, varnish, lacquers and stains	Th litres 654	408	
	L	203	
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.	MET BURGHARD COM	1,306	
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		435	
Textile fibre goods e.g. machinery belting , canvas goods and asbestos in all forms (excluding			
building boards and cement)		370	
Products wholly or mainly of plastics		517	
Components and accessories purchased for incorporation in goods of the firms' own manufacture			
Wheels, tyres and axles (rail type)		1,251	
Bolts, nuts, screws, rivets, etc.		1,502	
Precision chains		571	
Springs		446	
Electrical machinery e.g. generators, transformers, switchgear, motors, etc.		2,050	
Internal combustion engines		1,996	
Pumps, valves, compressors and fluid power equipment		1,890	
Mechanical engineering products not elsewhere specified e.g. ball and roller bearings, gears and gear wheels of metal, etc.		5,432	
Measuring instruments, gauges and control instruments		209	
Metal components not elsewhere specified e.g. stainless steel bulk tank inners		2,152	
Lubricating oils and greases (i.e. mineral, animal and vegetable)	Th gal 69	55 84	
Machinery and plant bought for installation and erection (excluding capital items for the firms'	Ĺ "		
own use)		170	

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

	Quantity	Value
		£ thousand
Stationery	regional environ diame	233
Packaging materials (including materials used for the manufacture of the firms' own packaging)		
Cartons and boxes wholly or mainly of cardboard (excluding fibreboard packing cases, e.g. for transit)	men tet problem (	177
Packaging products wholly or mainly of wood, and wood for conversion into packaging products		331
All other packaging materials		137
Fuel and electricity		
Coke (including breeze and manufactured fuel)	 Th gal	81
Derv fuel and motor spirit	356	179 60
Fuel oil	2,013	308 82
	Th tons	40
Liquefied petroleum gases (e.g. propane, butane, etc.)	1.0	43 52
Gas	Th therms 3,237	229
Electricity	Th kWh 30,312	358 80
All other fuels	uche eta mung leen	45
Replacement parts and consumable tools		n olgrern frigi
Tyres and other spare parts for the firms' own road vehicles	reverundanda bes	116
Replacement parts for the firms' own machinery, plant and equipment	Handit tree statem	533
Consumable tools (including gauges)		682
Other purchases	Sikia bas ersumbel	2,942
TOTAL VALUE OF PURCHASES (other than for merchanting and factoring)	estalem se vlindir entoutnice sou nois	49,270

		£ thousand
	the standards of the deed total.	Providence of the late.
ustrial services received		1,837
Repairs and maintenance to		
Buildings		67
Road goods vehicles		28
Plant and machinery		396
Work done on materials given out		1,181
Other		165
n-industrial services received		3,100
Rent of buildings, hire of plant and machinery		468
Commercial insurance premiums		357
Bank charges		48
Postage, telephone, telegrams, cables and telex		298
Transport		
Road		998
Rail and other means (excluding postal services)		127
Other		804

Produced in Wales by Her Majesty's Stationery Office Reprographic Unit, Cardiff Dd. 595377 K6 Cdf 209 9/78

#### Notes

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

#### GENERAL INFORMATION

### Changes made for 1974 and 1975

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

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

for postage, telephones, telegrams, cables and telex

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

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

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

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

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

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

#### Symbols used

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

.. not available

nil or less than half the final digit shown

\* figures cannot be shown owing to the risk of disclosing information about individual enterprises

R revised

#### Rounding of figures

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

#### Industrial classification

The United Kingdom Standard Industrial Classification (SIC) was first issued in 1948 and was subsequently revised in 1958 and 1968. It exists to promote uniformity and comparability in the official statistics of the United Kingdom. The general principles followed are those of the International Standard Industrial Classification of all Economic Activities of the United Nations Statistical Office but the United Kingdom SIC reflects the organisation and structure of industry and trade as it exists in the United Kingdom. The SIC is a classification by activity and is not a commodity classification. However, an index of all commodity headings for which sales data are provided in the Quarterly Business Monitors, is published as PQ 1000 in the Business Monitor Series.

#### Statistical units

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

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

Further information about the statistical unit appeared in an article "The statistical unit in business inquiries" in Statistical News No. 13 May 1971.

Establishments are asked to exclude from their returns particulars relating to any department not engaged in production e.g. merchanting, transport, warehousing, for which they keep a separate set of accounts. Transfers of goods produced to such departments are treated as sales and respondents are asked to value them as far as possible as if sold to an independent purchaser. Where separate accounts are not kept they are asked to include details of all these activities in their return.

Particulars relating to head offices, which were mainly engaged in the administration of the production units within the scope of the censuses were included. Where more than one return was made the information in respect of the head office was apportioned among them.

For certain purposes in the annual censuses of production (especially the enterprise analyses of Business Monitor PA 1002) related establishments are combined. For these purposes an enterprise group is defined as a business consisting of either a single establishment, or of two or more establishments under common ownership or control. The bringing together of establishments into enterprise groups is also necessary for the purpose of ensuring that there will be no disclosure of the activities of any one enterprise group. Information about the relationship of establishments, the changing structure of groups of companies and about common ownership links is obtained from many sources, including the Stock Exchange Year Book, company reports, press reports and information supplied by individual establishments

#### THE REGISTER

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

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

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

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

#### Coverage

A return was required in the 1974 and 1975 Censuses from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

#### Regions

The regions defined in Table 5 take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. These changes came into effect in April 1974 in England and Wales and May 1975 in Scotland.

#### TERMS USED IN THE CENSUS REPORT

#### Average number employed

Establishments were required to state the number of persons on the payroll on average during the year of return, whether full-time or part-time employees. Separate figures were required for:

#### (a) administrative, technical and clerical employees

(b) all other employees (operatives)

Averages could be calculated from the figures relating to the last week of each calendar month. Establishments were also required to state the number of working proprietors where appropriate and these are included in total employment figures. Outworkers (i.e. persons employed by establishments who worked in their own homes etc. on materials supplied by the establishment) are excluded. The figures include persons engaged on merchanting or factoring and canteen workers where particulars in respect of these activities could not be excluded from the return.

#### Working proprietors

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

#### Employees

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

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

#### Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included in the figures for 1971 to 1975. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. From 1973, establishments with 100 or more employees were asked to include a total net capital expenditure figure for each calendar year.

#### (a) New building work

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

#### (b) Land and existing buildings

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

#### (c) Plant, machinery and vehicles

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

#### Cost of industrial services

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

#### Cost of non-industrial services

Includes rent of industrial buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, postal etc., services, transport, advertising etc. Amounts payable on royalties for the right to use patents, 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.

#### Purchase:

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

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

## Sales of goods produced, work done and industrial services rendered

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

The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an ex-works or delivered basis, after

any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain industries this heading covers a wide variety of activities. For example, within the food sector—butter packed on commission; within the textile industries—making up of garments, fur dressing and textile finishing; within printing and publishing—preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber. Industrial services rendered includes repairs and maintenance, installation work, and technical research and studies rendered to other organisations.

#### Capital goods produced for establishments' own use

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

#### Non-industrial services rendered

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

#### Goods merchanted or factored

Merchanted goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

#### Stocks and work in progress

Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to sub-contractors are excluded and progress payments received from other organisations are not deducted.

#### Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc. is excluded.

#### Remuneration paid to outworkers

The remuneration paid to outworkers (i.e. persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by subcontractors are excluded.

#### Employers' insurance and welfare contributions

This item includes employers' contributions to national insurance and graduated pensions (and/or earnings related basic contributions under the Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, superannuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's holiday homes, etc. for employees, former employees and their dependants are also included.

## © Crown copyright 1978

## Her Majesty's Stationery Office

Government Bookshops

49 High Holborn, London WC1V 6HB
13a Castle Street, Edinburgh EH2 3AR
41 The Hayes, Cardiff CF1 1JW
Brazennose Street, Manchester M60 8AS
Southey House, Wine Street, Bristol BS1 2BQ
258 Broad Street, Birmingham B1 2HE
80 Chichester Street, Belfast BT1 4JY

Government publications are also available through booksellers

Extracts from this publication may be reproduced provided the source is acknowledged. Proposals for complete reproduction should be addressed to the Librarian, Business Statistics Office, Newport, Gwent NPT 1XG