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# 1973

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# **Business Monitor**

A publication of the Government Statistical Service

# **Report** on the **Census of Production**

# **Construction and earth**moving equipment



**Department of Industry Business Statistics Office** 

HMSO

# PA336

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# **Report on the Census of Production** 1973

# **Construction and earth**moving equipment

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

**Department of Industry Business Statistics Office** 



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# PA336 CONSTRUCTION AND EARTH-MOVING EQUIPMENT

The information in this report relates to establishments classified to the Construction and earth-moving equipment industry, minimum list heading 336 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

Manufacturing excavating and earth moving equipment such as excavators, crawler tractors, dozers, graders, scrapers, shovel loaders and dumpers; road making and maintenance equipment such as asphalt mixing and laying machines and road rollers, concrete mixers; pile drivers, etc.; and quarry crushing and screening plant. The manufacture of drag scrapers and cableway excavators, cranes, hoists, etc. and compressors are excluded.

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#### TABLE 1

#### Output and costs, 1970, 1971, 1972 and 1973 All United Kingdom establishments classified to the industry (a)

	Unit	1970	1971	1972	1973
Enterprises (b)	Number	191	176	170	19
Establishments (b)	"	206	202	195	214
Sales of goods produced, work done and industrial services rendered (c)	£'000 ]			100	219
Capital goods produced for establishments' own use (d)		266,707	267,270	298,740	333
Non-industrial services rendered (e)					1,521
Goods merchanted or factored		23,622	56,473	48,237	69,191
Total sales and work done (c) (e)	,,	290,328	323,743	346,977	445,03
ncrease during the year, work in progress and				0-10,077	440,035
joods on hand for sale	"	14,497	-4,847	-6,778	7,302
Gross output (c) (e)	_	304,825	318,896	340,200	452,337
Purchases of materials for use in production, and backaging and fuel (d)					ſ
urchases of goods for merchanting or factoring (d)		182,097	181,337	204,639	240,376 54,924
ncrease during the year, stocks of materials, ores and fuel		7 000			C
ost of industrial services received (f)		7,388	-4,311	1,600	18,504
Net output (g)	"	8,553	6,647	4,333	9,055
otal employment (h)	" Thousands	121,563	126,602	132,828	166,486
Net output per head (g)		42.3	39.4	38.4	40.5
	£	2,873	3,213	3,459	4,111
ayments for non-industrial services (j)	~				,
Rents, hire of plant, machinery and vehicles	£'000				1,847
Commercial insurance premiums					1,273
Bank charges					287
Other non-industrial services	,,				12,974
censing of motor vehicles (k)				6. 80 M	84
ates, excluding water rates (k)					1,951
Gross value added at factor cost					148,070
Gross value added at factor cost per head	£				3,656

For 1973, estimates for establishments not making satisfactory returns and for establishments employing less than 20 persons accounted for 15 per cent of the total figures in which they were incorporated: of this unsatisfactory returns accounted for 12 (a) per cent.

(b) Increase from 1972 to 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 1970-1972 do not include receipts for repairs and maintenance.

(d) Not recorded separately for 1970-1972.

The figures for 1970-1972 do not include revenue from rents for industrial buildings. (e)

The figures for 1970-1972 exclude the amounts payable for repairs and maintenance. (f)

The definition of net output used in previous census reports provided for the deduction of amounts payable to other organisations for transport of goods within the United Kingdom. The net output and net output per head figures on that basis were:-(g)

ear	Net output	Net output per head
	£'000	£
970	118,563	2,803
971	123,628	3,136
972	129,354	3,364

Additionally, the figures for 1970-1972 do not reflect revenue from rents or amounts payable for repairs and maintenance (see footnotes e and f).

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

Not collected for 1970-1972 except for amounts payable to other organisations for transport of goods within the United Kingdom. (j)

(k) Not collected for 1970-1972.

### TABLE 2

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Capital expenditure, 1970, 1971, 1972 and 1973 All United Kingdom establishments classified to the industry (a)(b)

The second secon	 	19	970
Land and buildings		era <del>anteria</del> Tengelaria	
New building work		3	,695
Land and existing buildings			
Acquisitions			371
Disposals			282
Vehicles			
Acquisitions			
Motor cars (c)			,490
Other vehicles (c)		ſ	,430
Disposals		-	
Motor cars (c)		]	466
Other vehicles (c)		}	400
Plant and machinery			
Acquisitions		7	,901
Disposals			473
Total net capital expenditure (d)		12	,237

(a) Including estimates for establishments not making satisfactory returns and for 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 1970-1972.

(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, 1970, 1971, 1972 and 1973

All United Kingdom establishments classified to the industry (a)

a set or the set of the set of the set	1970	1971	1972	19	973
	ne ha sen en ser i tans ne t	Incr	ease	teris (nobilitati - ar Lago despitati	Value at end of year
Materials, stores and fuel	7,388	-4,311	1,600	18,504	61,276
Vork in progress	6,271	-4,972	2,162	7,446	45,417
boods on hand for sale	8,226	125	-8,940	-144	33,833
Total	21,885	-9,158	-5,178	25,806	140,526

(a) Including estimates for establishments not making satisfactory returns and for establishments exempted by virtue of size. PA336 3

		£'000
1971	1972	1973
2,166	1,914	3,783
821	1,126	2,083
618	1,717	305
		Ber - Bernard
915	1,587	{ 1,129 403
363	389	470 56
5,437	5,131	7,373
482	626	468
7,875	7,026	13,472

### Analysis of establishments by size, 1973

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)	
	alashi wa <u>nakang</u>					Total	per head	Total	per head
	Number	Number	Number	Number	Number	£'000	£	£'000	£
1 - 10	72	71	421						
11 - 19	36	35	514						
20 - 49	31	31	971	2,295	983	3,663	1,596	1,949	1,983
50 - 99	21	21	1,510						
100 - 199	15	14	2,043	1,467	570	2,349	1,601	1,033	1,813
200 - 299	11	10	2,721	1,771	949	2,948	1,665	1,720	1,813
300 - 399	5	5	1,754	1,123	630	2,099	1,869	1,322	2,099
400 - 499	6	6	2,838	1,708	1,130	3,162	1,851	2,202	1,949
500 - 749	5	5	3,049	2,028	1,021	3,469	1,710	1,860	1,822
750 - 999	7	7	6,087	3,915	2,172	6,845	1,748	4,035	1,858
1,000 - 1,499	3	3	3,349	2,196	1,150	4,400	2,004	2,554	2,221
1,500 and over	7	7	15,241	10,093	5,148	20,611	2,042	11,757	2,284

Total	219	194	40,498	26,596	13,753	49,546	1.863	28 433	2 067
							.,	20,400	2,007

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

(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.

ntal sales d work ne (f)	Gross output	Net output		Gross value added at factor cost
		 Total	per head	Total
£'000	£'000	£'000	£	£'000
26,837	26,737	12,202	3,572	(h)
18,272	17,800	7,019	3,435	17,357(h)
24,584	24,231	10,052	3,694	9,024
13,746	13,918	5,536	3,156	4,878
38,592	39,301	16,699	5,884	15,277
22,165	22,790	8,055	2,642	7,306
55,592	55,067	18,229	2,995	16,085
54,013	55,141	21,382	6,385	19,534
191,233	197,352	67,314	4,417	58,609

			93243			
445,0	35	452,337	166,486	4,111	148,070	

(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 £6,744 thousand. In addition, for 1973 the remuneration to outworkers on returns received was £19 thousand.

(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.

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

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

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To and dor

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	-		_	-	~

		And the state of the state of the
per head	Net capital expenditure (g)	Total stocks and work in progress at end of year
£	£'000	£'000
(h)	1,060	6,196
3,179(h)	311	4,513
3,316	697	7,424
2,781	255	5,241
5,383	1,546	12,441
2,396	532	8,423
2,643	1,152	18,893
5,833	3,819	12,647
3,845	4,102	64,748

3,656 13,472 140,526



#### TABLE 5

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Regional distribution of employment, net capital expenditure and net output, 1973 All United Kingdom establishments classified to the industry (a)

Area	Employ	Employment (b)		Net capital expenditure (c)				Net output and employment in the region of establishments with more than <b>8</b> 0 per cent of their employment in the region (e)		
			Total (c)		Land and existing buildings (d)	Other (d)	Estimated net output	Average number employed as a percentage of total average number employed in the industry in the region	Net output as a percent- age of total of the industry in the United Kingdom	
	Thous- ands	per cent of United Kingdom	£'000	per cent of United Kingdom	£'000	£'000	£'000		-	
Standard regions of England										
North	3.0	7.5	587	4.4	*	*	2,090	19.2	1.3	
Yorkshire and Humberside	4.7	11.7	*	*	•	*	12,726	86.2	7.6	
East Midlands	7.6	18.9	1,746	13.0	204	1,542	28,178	89.2	16.9	
East Anglia	2.2	5.4	382	2.8	6	375	4,606	59.7	2.8	
South East	5.2	12.9	1,132	8.4	216	916	13,293	68.9	8.0	
South West	3.4	8.4	*	*	*	*	8,268	74.3	5.0	
West Midlands	3.4	8.5	*	*	*	*	15,641	48.4	9.4	
North West	3.7	9.0	1,389	10.3	651	738	7,756	85.4	4.7	
England	33.3	82.4	11,320	84.0	1,752	9,568	92,558	71.1	55.6	
Wales	1.8	4.5	*	*	*	*	1,051	21.3	0.6	
Scotland	4.8	11.8	*	*	*	*	13,234	48.9	7.9	
Great Britain	39.9	98.7	13,258	98.4	1,777	11,480	106,843	66.2	64.2	
Northern Ireland	0.5	1.3	214	1.6	1000	214	2,944	100.0	1.8	
Unallocated (a) (f)					nen regyona		56,700	antical res <u>r</u> ations	34.1	
Jnited Kingdom	40.5	100.0	13,472	100.0	1,777	11,694	166,486	/	100.0	

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

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

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

(d) Acquisitions less disposals.

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 proportionate to employment at the address. The establishment's residual pat output was included in unallocated pat output. (e) net output was included in unallocated net output.

(f) Includes unallocated net output of establishments covering addresses in two or more regions.

## TABLE 6

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1973

Accoun	ting year ended	Percentage of total returns received
		per cent
	April (a)	1.3
1973	May	0.0
	June	7.7
	July	1.3
	August	5.1
	September	11.5
	October	5.1
	November	0.0
	December	42.3
1974	January	3.9
	February	0.0
	March (b)	21.8
		100.0

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1974.

#### TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1973 (a)

Sex		Full-time	Part-time	All employees
	124) (	per cent	per cent	per cent
				· · · · · · · · · · · · · · · · · · ·
Nale		89	1	90
-				
emale		9	1	10
		98	2	100

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at mid-June, 1973.

per cent	
0.1	
0.0	
7.1	
1.0	
2.2	
13.6	
5.3	
0.0	
53.5	
0.6	
0.0	
16.6	
100.0	

Source: Department of Employment

#### TABLE 8

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TABLE 8 (continued)

Sales of principal products of the industry by establishments employing 25 or more persons, including sales by establishments classified to other industries, 1973

	Qu	antity	Value
	101 100 100 mm		_
		Number	£'000
Excavators, trenchers, ditchers and similar digging machinery (including buckets excavators):	and grabs and dragline		
Crawler or road wheel mounted single bucket units with fully-slewing upper s 360°) and interchangeable front end attachments	tructure (throughout	2,388	26,995
Continuous bucket trenching and ditching machines (i.e. multi-bucket machines wheel, vertical boom or ladder boom)	nes with either excavating	2,000	(b)
Integrated tractor digger combinations (i.e. rear diggers, tractor mounted)		10,639	42,121
Rear digger units, not tractor mounted		10,000	2,862
Other (excluding back acters fitted to crawler tractors)			2,002 164(c)
Parts for excavators, trenchers and similar digging machinery			
Other earth-moving, earth-levelling and land-clearing equipment including dozer- evellers, scrapers (other than rope hauled drag scrapers), rear-engined wheeled lo rawler tractors, tractor winches, rippers, rooters, dumpers and powered barrows	ading shovels		21,537
Tractor shovels, wheeled:			
Two wheel drive		1,820	6,103
Four wheel drive		2,955	26,354
Crawler loading shovels		2,266	15,299
Crawler tractors (including agricultural tractors but excluding 3 and 4 wheeled tractors):	and half-tracked	2,200	10,200
Over 10 to under 60 drawbar hp		387	1,230
60 to under 100 drawbar hp		658	2,386
100 drawbar hp and over		1,604	23,652
Equipment for mounting on tractors (dozer-blades, back acters, rippers, roote	ers winches etc.)		9,770
Motor graders			
Scrapers		769	10,571
Dumpers and dump trucks:			
Under 5 cu yds struck capacity		12,187	11,978
5 cu yds struck capacity and over		768	13,193
Other including dumper bodies for mouting on commercial vehicles and towed	I dumpers		3,163
Parts for other earth-moving, earth-levelling and land-clearing equipment			65,529
oncrete mixing and placing machinery:			00,020
Complete machines		34,326	18,457
Parts			3,331
oad making and maintenance plant:			
Asphalt, bitumen, tar and tarmacadam processing and laying plant:			
Complete machines			19,179
Parts			
Road rollers:			3,506
Steel-wheeled		1 045	4 200
Vibrating		1,045	4,336
Rubber tyred	•	5,339	4,373
(Other)		20	
Parts of rollers		32	65

Road making and maintenance plant: (continued) Road gritting machinery and attachments and parts Snow ploughs, blowers and attachments and parts Crushing, pulverising and screening plant: Fixed plant, complete Mobile plant, complete Parts Well drilling equipment: Petroleum, complete Other, complete Parts Pile driving equipment and earth boring machinery, including parts Other construction and earth-moving equipment not elsewhere specified Reconditioned construction and earth-moving equipment: Complete machines Parts Waste products Work done Total sales of principal products of the Construction and earth-moving equipment industry (MLH 336) and work done

(a) Sales are deliveries on sale for home or abroad; forward sales are excluded. Values are net selling values, value added tax (or purchase tax where previously applicable) trade discounts and commissions are excluded.

(b) Figures for continuous bucket trenching and ditching machines included with other excavators, trenchers etc., where indicated.

1973			
Quantity	Value		
Number	£'000		
	249		
	76		
	9,506		
	5,068		
	4,891		
	3,404		
	907		
	8,210		
	6,310		
	1,310		
1,923	4,175		
	49		
	341		
	3,242		

385,348

Source: Business Monitor (PQ 336). Quarterly Statistics

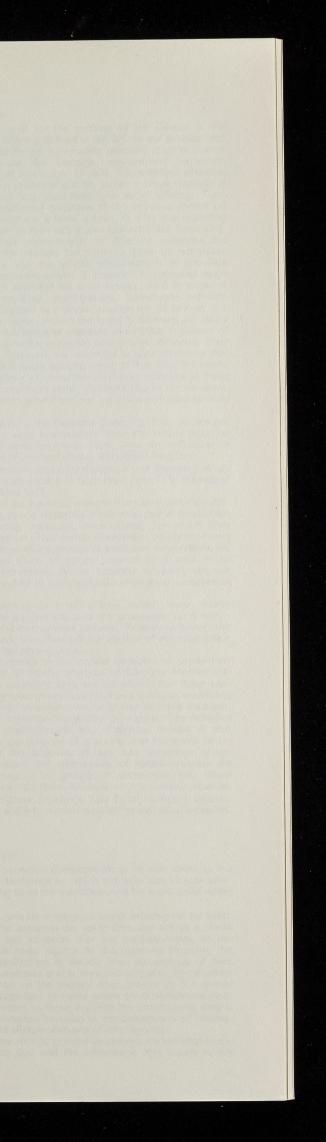
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### Notes

These notes give the main information needed for interpreting the figures in the industry Business Monitors: more detailed information about the census is given in a separate Business Monitor - PA1001 (Introductory Notes) of the Report on the Census of Production, 1973.

GENERAL INFORMATION

Changes made for 1973

The Census for 1973 was the first to be modified to bring it into line with similar inquiries being conducted in other member countries of the European Economic Communities. One modification has made possible the publication for the first time in the Annual Censuses of data on a number of additional items. These include:

Capital goods purchased for establishments' own use (previously included with sales of goods produced etc.) Purchases of goods for merchanting or factoring (previously included with purchases of materials etc.)

Payments for non-industrial services

Licensing of motor vehicles

Rates, excluding water rates Gross value added

Amounts paid to outworkers (where applicable)

Employers' national insurance contributions etc.

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. There may, therefore, be an apparent slight discrepancy between a sum of constituent items and a 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 PQ1000 in the Business Monitor Series.

The SIC is revised every 10 years or so and is to be revised to bring it more closely into line with the General Industrial Classification of Economic Activities within the European Communities (NACE).

Statistical units The statistical unit for the purpose of the Census is the establishment which is defined in the SIC as the smallest unit which can provide the information normally required for an economic census, for example, employment, expenses, turnover, capital formation. Usually the principal activities carried on in an establishment fall within a single heading of the classification (e.g. steel making or sugar refining). Typically 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 News No. 13 May 1971.

their return. was apportioned among them. ments.

THE REGISTER it comprises

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 on 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 inquires" 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 activities in

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

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 establish-

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

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 census 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 1973 Census from each establishment with 20 or more employees. Each establishment is classified to an industry, as defined in the SIC, whose principal products form the major part of the establishment's sales.

#### Regions

The regions defined in Table 5 do not take account of the boundary changes arising out of the Local Government Act 1972 and the Local Government Act (Scotland) 1973. As these boundary changes did not come into effect until April 1974 in England and Wales and in May 1975 in Scotland, the regions defined for these analyses are consistent with boundaries which existed in 1973.

#### TERMS USED IN THE CENSUS REPORT

#### Average number employed

Establishments were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by them) on the 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 1970 to 1973. Establishments were asked not to deduct from the value of capital expenditure amounts received or expected to be received in grants or allowances from the Government or any statutory body or local authority. Establishments with 100 or more employees were also asked to include a total net capital expenditure figure for the calendar year 1973.

#### (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 or on the extension or reconstruction of old buillings, 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 of 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. Deductable value added tax is excluded but non-deductable 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.

#### 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 workers 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 (rent of buildings and capital equipment, commercial insurance premiums, bank charges and amounts paid for professional services, postal etc. services, transport, advertising etc.). 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 materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials; office materials and materials for repairs to establishment's own buildings, plant and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also

ded. Purchases of goods for merchanting or factoring collected separately for 1973. Materials supplied by mers for processing are excluded, as are all purchases arged to capital account. The values shown exclude value d tax but include any duty paid (less rebate etc.), values ude trade discounts allowed. The cost of transport is ided only if included in the cost of materials as invoiced; nts paid to transport organisations, including an estabent's own separate transport organisations for delivery aterials and fuel are, therefore, excluded. Materials pured overseas are included at the c.i.f. cost plus any duty able if the cost of transport from the docks are not uded in the invoiced price, but at their full delivery cost if niced "carriage paid home". Materials and fuel transed from another department of the establishment not ered by the same return are included at the estimated ing value recorded by the other department.

ales of goods produced, work done and industrial services

ales for the purposes of the annual censuses means deon sale of goods made by establishments in the ed Kingdom covered by the inquiry. Sales of goods de for these establishments by outworkers or by estabents from materials given out to them are included; as are sales of waste products. Any new building work and inery or other capital items produced by establishments hiring out or leasing are regarded as sales, the value ided in the return being that adopted in the establishnts' capital asset accounts. Forward sales and canteen ings are excluded. All sales in the period of the injury are cluded irrespective of when the goods were manufactured. pods produced in one establishment and transferred either ancillary departments not engaged in production and for ch there are separate accounts, or to another estabnent of the same firm not covered by the return, are ated as sales by the producing establishment and valued as as possible as if they had been sold to an independent aser. Goods transferred to wholesale or retail selling nisations, for which separate accounts are kept are d on the same basis.

value shown for sales is the "net selling value" defined the amount (excluding value added tax) charged to mers whether on an ex-works or delivered basis, after trade discounts and agents' commissions have been icted. The cost of packing materials less allowance for nable cases is included. In industries where products ract Excise Duty the value stated is usually inclusive of ity if sold duty-paid and exclusive of duty if sold in bond or

ures for work done represent the amount charged for ork carried out on materials supplied by a customer and lude repair work. Within certain industries this heading ers a wide variety of activities. For example, within the ood sector - butter packed on commission; within the texle industries - making up of garments, fur dressing and xtile finishing; within printing and publishing – preparatory ork on type-setting, block making and binding. Work done also significant in the electrical machinery and heavy enginindustries, covering erection, installation and repair and jobbing work. Other activities within this heading include oration work, research and development, glass cutting d dressing and planing of timber. Industrial services dered includes repairs and maintenance, installation work, nd technical research and studies rendered to other organiCapital 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 included.

Goods merchanted or factored 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 any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to national insurances and pension schemes are 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 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.

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., manu-

# facturing and quarrying rights and technical "know-how"; revenue from such staff facilities as canteens are also

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

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