



Publication of the Government Statistical Service

DEPARTMENT OF TRADE AND INDUSTRY **BUSINESS STATISTICS OFFICE** 

# Report on the Census of Production 1970

C61 Space heating, ventilating and airconditioning equipment

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DEPARTMENT OF TRADE AND INDUSTRY **BUSINESS STATISTICS OFFICE** 

# 1970

# conditioning equipment

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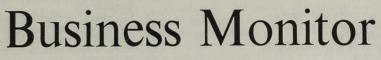
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# Report on the Census of Production

C61 Space heating, ventilating and air-

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Water supply Summary tables

# C61 Space heating, ventilating and airconditioning equipment

This report on the Space-heating, Ventilating and Air-conditioning Equipment Industry relates to establishments engaged wholly or mainly in manufacturing, other than at foundries, equipment for space-heating, ventilating and air-conditioning systems and dust extraction systems, including heater batteries, unit heaters, ventilators, hoods, cowls, ducting, etc., and self-contained air-conditioning machines. The manufacture of thermostats and similar measuring and controlling apparatus, domestic type electric heaters, fans, etc., self-contained oil burners and gas heaters are excluded. Establishments specialising in the installation of air-conditioning equipment are also excluded.

The industry corresponds to minimum list heading 339(4) in the Standard Industrial Classification (revised 1968) which was used for the first time as a basis of classification in the 1968 census, when it was reported as part 61. The definition of the industry is the same for the 1968 and 1970 censuses. The figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (revised 1968).

#### METHOD OF CLASSIFICATION

The standard procedure for classifying an establishment to an industry is described in the notes on page (iii). Certain modifications of the standard procedure were necessary, however, for this industry. References in the following paragraphs to returns are to those in the 1968 census of production where detailed product sales were available.

In classifying returns to this industry the value of unspecified work done (other than structural and installation work), including repair work, was not taken into account unless it amounted to 80 per cent or more of the total output of the return in which case the return was classified to General Mechanical Engineering (part C66). The amount charged for erecting and installing machinery and plant (other than air-conditioning, heating and ventilating plant) was treated as part of the selling value of these items in determining the industrial classification of returns. The standard classification procedure as outlined in the notes on page (iii) was further modified where a return would have been classified to one of the mechanical engineering industries relating to a specific class of machinery (viz. parts C50 to C66) but where the sales of the principal products of the industry concerned (including parts) accounted for less than 20 per cent of the total output: in such cases the return was classified to the General Mechanical Engineering Industry (part C66).

# in mind the notes and definitions which commence on page (iii).

In interpreting the data in the tables it is essential to bear

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7	Percentage analysis of twelve-month periods covered by returns from establishments employing 25 or more persons, 1970	C61.9

# TABLE 1

Net output, 1963, 1968 and 1970

All United Kingdom establishments classified to the ind

EnterprisesNationAddEstablishments (b)"42862757Sales of goods produced and work done Services rendered to other organisations (c)"42862757Sales of goods produced and work done Services rendered to other organisations (c)"67,130124,276170,23Goods merchanted or factored Canteen takings"5,3396,0619,32Total sales and work done"72,469130,337180,72Change during the year, goods on hand for sale Change during the year, work in progress"+166+676+1,66Gross output"72,842133,026184,41Cost of purchases"31,41061,61792,91Change during the year, stocks of materials, stores and fuel"+548+1,831+2,81Payments to other organisations for transport by road for transport by road for transport by road for transport by road"33,22463,66795,8Net output"39,61869,35988,61Total cests"39,61869,35988,62Total employment (including working proprietors) (e)Thousands26.334.436		1963	Unit	1963	1968	1970
Eatablishments (b)     "     428     627     57       Sales of goods produced and work done Services rendered to other organisations (c)     "     67,130     124,276     94       Goods merchanted or factored Canteen takings     "     5,339     6,061     9,22       Canteen takings     "     72,469     130,337     180,72       Change during the year, goods on hand for sale Change during the year, work in progress     "     72,469     130,337     180,72       Change during the year, work in progress     "     72,642     133,026     184,42       Cost of purchases     "     31,410     61,617     92,99       Change during the year, stocks of materials, stores and fuel     "     +     559     2,320     3,12       Payments to other organisations for work done on materials given out     "     1,559     2,320     3,14       for transport by real for transport apprecise (a)     1,505     2,017     2,4       (a)     Including estima	Enterprises	conta E	Number	390	566	546
Each is indents (0) $f$ <			II	129	627	576
Sails of goods products in for the thein<	Establishments (b)	CIN		420	021	010
Services rendered to other organisations (c)nnnGoods merchanted or factorednn5,3396,0619,32Canteen takingsn72,469130,337180,72Total sales and work donen72,469130,337180,72Change during the year, goods on hand for salen+166+676+nn72,469133,026184,41Cost of purchasesn31,41061,61792,91Change during the year, stocks ofn+548+1,831+Payments to other organisationsn+5592,3203,14for transport by roadn+5592,3203,14for transport by roadn+33,22463,66795,8Net outputn39,61869,35988,6Total costsn33,22463,66795,8Net outputn39,61869,35988,6Total explore (including working proprietors) (c)Thousands26.334.4(a) Including estimates for establishments notes on page (iii).(c)Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(d) For 1963 and 1968, payments for postal services are excluded.(d)	Sales of goods produced and wo	rk done	£'000	67 130	124 276	170,233
Goods merchanted of factorialn5,3396,061222Canteen takingsn72,469130,337180,72Change during the year, goods on hand for salen72,469130,337180,72Change during the year, goods on hand for salen72,469130,337180,72Change during the year, work in progressn72,842133,026184,41Cost of purchasesn31,41061,61792,91Change during the year, stocks ofn1,5592,3203,14Cost of purchasesn1,5592,3203,14Cost of purchasesn1,5592,3203,14Cost of purchasesn1,5592,3203,14Cost of purchasesn1,5592,3203,14for work done on materials given outn1,5592,3203,14for transport by roadn1,5592,3203,14for transport by roadn33,22463,66795,8Net outputn39,61869,35988,6Total costsn33,22463,66795,8Net outputn39,61869,35988,6Mathematic in notes on page1,5052,0172,4(a)Including estimates for establishments not making satisfactory returns and for establishmentsmsecond for portions (e)Thousands26.334.4(b)See definition of establishments in notes on page (iii).(c)Amounts charged for hir	Services rendered to other org	anisations (c)	н	<b>)</b> 07,130	124,210 (	942
Canteen takingsn0.00122Total sales and work donen72,469130,337180,72Change during the year, work in progressn+166+676+1,65Change during the year, work in progressn72,842133,026184,41Cost of purchasesn31,41061,61792,91Change during the year, stocks of materials, stores and fueln+548+1,831+2,81Payments to other organisations for work done on materials given out for transport by road for transport by roadn1,5592,3203,14Post Office parcel services (d)n33,22463,66795,895,8Net outputn39,61869,35958,6Total costsn33,22463,66795,8Net outputn39,61869,35958,6Total costsn33,22463,66795,8Net outputn39,61869,35958,6Total costsn33,22463,66795,8Net outputn39,61869,35958,6Total costsn33,22463,66795,8Net output ger head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing leas than 25 persons.(b) See definition of establishments in notes on page (iii).(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or f	Goods merchanted or factored	and the second second second	п	1	1	9,323
Total sales and work donen72,469130,337180,72Change during the year, goods on hand for salen+166+676+1,65Change during the year, work in progressn+207+2,013+2,02Gross outputn72,842133,026184,41Cost of purchasesn31,41061,61792,91Change during the year, stocks ofn+548+1,831+2,81Payments to other organisationsn+548+1,831+2,81for transport by roadn+5592,3203,14for transport by roadn1,5592,3203,14for transport by roadn33,22463,66795,8Net outputn39,61869,35988,6Total costsn33,61869,35988,6Net outputn39,61869,35988,6Met output per head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.11(b) See definition of establishments in notes on page (iii).(ii).(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered.(d) For 1963 and 1968, payments for postal services are excluded.1			11	5,339	6,061	229
Change during the year, goods on hand for sale Change during the year, work in progressn+166+676+1,650Gross outputn72,842133,026184,41Cost of purchasesn31,41061,61792,91Change during the year, stocks of materials, stores and feeln+548+1,831+2,62Payments to other organisations for work done on materials given outn1,5592,3203,16Payments to other organisations for transport by roadn1,5592,3203,16Post Office parcel services (d)n33,22463,66795,8Net outputn39,61869,35988,6Total costsn33,61869,35988,6Net outputn39,61569,35988,6Total employment (including working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.11(b) See definition of establishments in notes on page (iii).(i) For 1963 and 1968, payments for postal services are excluded.(d) For 1963 and 1968, payments for postal services are excluded.			"	72 469	130.337	180,72
Change during the year, work in progressu+ 207+ 2,013+ 2,02Gross outputu72,842133,026184,41Cost of purchasesu31,41061,61792,91Change during the year, stocks of materials, stores and fuelu+ 548+ 1,831+ 2,81Payments to other organisations for work done on materials given outu1,5592,3203,14Payments to other organisations for work done on materials given outu1,5592,3203,14Post Office parcel services (d)u33,22463,66795,8Net outputu39,61869,35988,6Total costsu33,22463,66795,8Net outputu39,61869,35988,6Total employment (including working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.1(b) See definition of establishments in notes on page (iii)(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered(d) For 1963 and 1968, payments for postal services are excluded	Total sales and work don	le				
Change during the year, work in projector"72,842133,026184,41Cost of purchases"31,41061,61792,91Change during the year, stocks of materials, stores and fuel"+548+1,831+2,81Payments to other organisations for work done on materials given out"1,5592,3203,14Payments to other organisations for transport by road"1,5592,3203,14Post Office parcel services (d)"8031476Total costs"33,22463,66795,8Net output"39,61869,35988,6Total employment (including working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a) Including estimates for establishments in notes on page (iii).(b) See definition of establishments in notes on page (iii).(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered.(d) For 1963 and 1968, payments for postal services are excluded.						
Cross outputIIIIIIIICost of purchasesIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Change during the year, work i	n progress	Ш	+ 207	+ 2,013	+ 2,02
Cost of purchases       Including estimates for establishments in notes on page (iii).         Change during the year, stocks of materials, stores and fuel       Including estimates for establishments in notes on page (iii).         Payments to other organisations       Including estimates for establishments in notes on page (iii).         (a)       Including of establishments in notes on page (iii).         (b)       See definition of establishments in notes on page (iii).         (c)       Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services are excluded.	Gross output	194 N	П	72,842	133,026	184,41
Change during the year, stocks of materials, stores and fuel       n       + 548       + 1,831       + 2,81         Payments to other organisations for work done on materials given out       n       1,559       2,320       3,14         for transport by road       n       1,559       2,320       3,14         for transport by road       n       803       147       6         for transport by rail, water, air and Post Office parcel services (d)       n       33,224       63,667       95.8         Net output       n       39,618       69,359       88,6         Total costs       n       39,618       69,359       88,6         Net output       n       39,618       69,359       88,6         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).       (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.       95.8	Cost of purchases		н	31,410	61,617	92,91
materials, stores and fuel       n       + 548       + 1,831       + 2,53         Payments to other organisations       n       1,559       2,320       3,14         for transport by road       n       1,414       1,99         for transport by real, water, air and       n       33,224       63,667       95,8         Net output       n       39,618       69,359       88,6         Total employment (including working       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).       (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.       . <td></td> <td>s of</td> <td></td> <td></td> <td></td> <td></td>		s of				
for work done on materials given out       n       1,559       2,320       3,16         for transport by road       n       n       803       1,414       1,99         for transport by rail, water, air and       n       n       803       147       6         Total costs       n       33,224       63,667       95,8         Net output       n       39,618       69,359       88,6         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       10       5       5         (b) See definition of establishments in notes on page (iii).       (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for an technical or other services rendered.       (d) For 1963 and 1968, payments for postal services are excluded.	materials, stores and fuel		II	+ 548	+ 1,831	+ 2,81
for work done on materials given out       n       1,400       1,414       1,99         for transport by road       n       803       1,414       1,99         for transport by rail, water, air and       n       803       147       6         Post Office parcel services (d)       n       33,224       63,667       95,8         Net output       n       39,618       69,359       88,6         Total costs       n       39,618       69,359       88,6         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).       (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.       .				1.550	9, 990	3 15
for transport by rail, water, air and       n       803       147       6         Post Office parcel services (d)       n       33,224       63,667       95,8         Total costs       n       39,618       69,359       88,6         Net output       n       39,618       69,359       88,6         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).         (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.		given out	and the second second second second second	1,559	1	
Post Office parcel services (d)       n       147       6         Post Office parcel services (d)       n       33,224       63,667       95,8         Total costs       n       39,618       69,359       88,6         Net output       n       39,618       69,359       88,6         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).         (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.		r air and	-	803	{	1,00
Total costs"33,22463,66795,8Net output"39,61869,35988,6Total employment (including working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.(iii).(b)See definition of establishments in notes on page (iii).(iii).(c)Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(iii).(d)For 1963 and 1968, payments for postal services are excluded.33,22463,66795,8	Post Office parcel services	(d)	U		147	61
Net output       II       39,618       69,359       88,61         Total employment (including working proprietors) (e)       Thousands       26.3       34.4       36         Net output per head       £       1,505       2,017       2,4         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b) See definition of establishments in notes on page (iii).       (c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.         (d) For 1963 and 1968, payments for postal services are excluded.					the for all the	nd an ein
Net outputIncluding working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.(a) Including estimates for establishments in notes on page (iii).(b) See definition of establishments in notes on page (iii).(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(c) For 1963 and 1968, payments for postal services are excluded.	Total costs		П	33,224	63,667	95,81
Net outputThousands26.334.436Total employment (including working proprietors) (e)Thousands26.334.436Net output per head£1,5052,0172,4(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.6(b) See definition of establishments in notes on page (iii)(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(d) For 1963 and 1968, payments for postal services are excluded.						
proprietors) (e)Thousands26.334.430Net output per head£1,5052,0172,4(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.(a)See definition of establishments in notes on page (iii).(b)See definition of establishments in notes on page (iii).(c)Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(d)For 1963 and 1968, payments for postal services are excluded.	Net output		П	39,618	69,359	88,60
proprietors) (e)Thousands26.334.430Net output per head£1,5052,0172,4(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.(a)See definition of establishments in notes on page (iii).(b)See definition of establishments in notes on page (iii).(c)Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.(d)For 1963 and 1968, payments for postal services are excluded.			-			
proprietors) (e)       Indusands       1000 and s         Net output per head       £       1,505       2,017       2,4         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (b)       See definition of establishments in notes on page (iii).         (c)       Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.       (d)       For 1963 and 1968, payments for postal services are excluded.		orking	Thousando	26.3	34.4	36
<ul> <li>(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.</li> <li>(b) See definition of establishments in notes on page (iii).</li> <li>(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.</li> <li>(d) For 1963 and 1968, payments for postal services are excluded.</li> </ul>	proprietors) (e)		Inousands			
<ul> <li>(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.</li> <li>(b) See definition of establishments in notes on page (iii).</li> <li>(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.</li> <li>(d) For 1963 and 1968, payments for postal services are excluded.</li> </ul>			e	1 505	2.017	2,40
<ul> <li>employing less than 25 persons.</li> <li>(b) See definition of establishments in notes on page (iii).</li> <li>(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.</li> <li>(d) For 1963 and 1968, payments for postal services are excluded.</li> </ul>	Net output per head	about hands along		1,000		The second
<ul> <li>(c) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for ar technical or other services rendered.</li> <li>(d) For 1963 and 1968, payments for postal services are excluded.</li> </ul>	(a) Including estimates for employing less than 25 p	persons.	t making satis	afactory returns a	name and to bee at	tannan hi wanta
technical or other services rendered. (d) For 1963 and 1968, payments for postal services are excluded.	(b) Son definition of establ		on page (111	).		
					iding transport	or for an
(e) Average number of persons employed during the year.	(c) Amounts charged for hir:	ing out plant, mac			viding transport,	or for any
	(c) Amounts charged for hir technical or other serv	ing out plant, mac ices rendered.	hinery or othe	er goods, for prov	viding transport,	or for any
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for any
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for any
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for an
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for any
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for any
	<ul> <li>(c) Amounts charged for hir technical or other serv</li> <li>(d) For 1963 and 1968, payments</li> </ul>	ing out plant, mac ices rendered. ents for postal se	hinery or othe rvices are exe	er goods, for prov	viding transport,	or for any

C61.3

lustry (a)	(a)
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Capital expenditure and stocks, 1963, 1968 and 1970

All United Kingdom establishments classified to the industry (a)

Mehan Chinas	in Generation of	homen trailers ages	1963	1968	1970 (b)
Capital expenditure	and the second second	a secondaria	£'000	000°3	£'000
New building work			916	1,007	1,964
Land and existing buildings			mand stric	· bas bendend a	Seles of cost
Acquisitions			181	188	1,175
Disposals			43	1,154	3,501
Plant and machinery				team of heat	Can be granted as
Acquisitions			1,940	2,976	3,181
Disposals			29	76	126
Vehicles			essathoad of	AND TRACTOR	
Acquisitions			491	834	1,372
Disposals			208	313	491
Total net capital expenditu	re (c)		3,248	3,461	3,574
Stocks and work in progress at en	d of year		140	ther organisation	Payaanta to o
Materials, stores and fuel			6,956	13,568	18,374
Work in progress			5,351	15,163	17,209
Goods on hand for sale			2,034	4,164	6,366
Total stocks			14,341	32,895	41,949

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included for 1970.

(c) Acquisitions <u>less</u> disposals.

### Analysis of establishment by size, 1970 All United Kingdom establishments classified to the industry (a)

				Employ	ees	Wages and	salaries	Wages and s per he		Total sales and	Gross	Net	Net	Capital expenditure	Total stocks and work in
Size group (b)	Enterprises (c)	Estab- lishments (d)	Total employment (b)	Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)	work done (f)	output	output	per head		progress at -end of year
	Numbe r	Numbe r	Numbe r	Numbe r	Number	£'000	£'000	£	£	£'000	£,000	£,000	£	£'000	£'000
1-10	192	192	1,320	1					and the second		10				
11-24	187	187	3,380	7,386	2,754	8,954	4,095	1,212	1,486	45,493	46,431	23,003	2,221	2,119	8,602
25-49	47	47	1,745	( .,	2,101	.,	1.5								. 21.
50-99	57	57	3,911	J	and the second			and the second second				100			58
100-199	54	55	7,897	5,092	2,784	6,021	4,159	1,182	1,494	39,165	40,165	19,190	2,430	656	10,462
200-299	13	13	3,283	2,042	1,241	2,604	1,858	1,274	1,497	18,182	18,258	7,910	2,409	424	3,679
300-399	7	. 7	2,596	1,714	882	1,839	1,212	1,073	1,374	9,861	9,694	5,095	1,963	185	1,883
400-499	4	4	1,757	1,048	709	1,193	982	1,138	1,384	7,666	7,903	3,998	2,275	344	1,425
500-999	10	10	6,501	4,105	2,396	5,364	3,053	1,306	1,274	33,024	33,411	17,818	2,741	- 779	7,349
1,000 and over	4	4	4,466	3,044	1,415	3,841	2,159	1,262	1,526	27,336	28,553	11,586	2,594	625	8,549
Total	546	576	36,856	24,431	12,181	29,815	17,519	1,220	1,438	180,726	184,415	88,600	2,404	3,574	41,949

- (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.
- (b) Average number employed during the year (including working proprietors) by the establishment.
- (c) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

- (d) See definition of establishments in notes on page (iii).
- (e) Administrative, technical and clerical employees.
- (f) Including sales of goods merchanted or factored and canteen takings. Also includes services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (g) Acquisitions less disposals.

Percentage analysis of employees, by age and sex, 1970 (a)

All United Kingdom establishments classified to the industry

Ages	Males	Females	All employees
	per cent	per cent	per cent
Under 18	3	1	4
18 and over	80	16	96
All ages	83	17	100.0

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the 'other machinery' industries, minimum list heading 339 at mid-June 1970. In the 1970 census the employment of the Space-heating ventilating and air-conditioning equipment industry, represented 15 per cent of the employment of minimum list heading 339 as a whole.

## TABLE 5

C61.6

Regional distribution of employment, net capital expenditure and net output, 1970 All United Kingdom establishments classified to the industry

(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	SRR1	(34)	Net ca	mital	Net output	and employment in	the region of
Area	Average employ		expendit		establishmen	nts with more than yment in the region	80 per cent of
	32	1.02					
	24,701	887.88			Estimated net output	Average number employed as a percentage of total average number employed in the industry	Net output as percentage of total of the industry in the United Kingdom
	6.20	957.Jr				in the region	
Rose States	Thousands	per cent of United	£'000	per cent of United	£'000	weat trans has en	
	188	Kingdom		Kingdom	to state boost	an alaman week odd	
Standard Regions of England	15. L +	NBT -			10.079(*10)	ni dan <sub>p</sub> aan sul	
North	1.4	3.8	134	3.7	352	19.3	0.4
Yorkshire and Humberside	2.6	7.1	391	10.9	4,882	81.2	5.5
East Midlands	2.2	6.1	265	7.4	3,986	71.3	4.5
East Anglia	*	*	*	*	*	*	*
South East	13.5	36.7	928	26.0	21,147	66.2	23.9
South West	*	*	*	*	*	*	*
West Midlands	5.6	15.2	655	18.3	12,574	79.3	14.2
North West	5.4	14.5	845	23.7	8,299	77.1	9.4
England	31.7	86.1	3,255	91.1	53,085	69.3	59.9
Wales	*	*	*	*	*	*	*
Scotland	2.4	6.5	154	4.3	1,884	27.8	2.1
Great Britain	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*
Unallocated (d)	- 2,01	0.00	-	-	29,239	inso-i para p	33.0
United Kingdom	36.9	100.0	3,574	100.0	88,600		100.0

(a) Including working proprietors.

(b) New building work plus acquisitions less disposals of land and existing buildings, plant and machinery and vehicles: including capital expenditure at establishments not yet in production.

(c) 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 net output was included in unallocated net output.

(d) Includes estimates of net output for establishments not making satisfactory returns and establishments employing less than 25 employees, and unallocated net output of establishments covering addresses in two or more regions.

C61.8

Analysis of net output of returns received from United Kingdom establishments employing 25 or more persons, 1963, 1968 and 1970

	Unit	1963	1968	1970
Enterprises	Numbe r	129	171	151
Establishments (a)		. 167	221	160
Sales of goods produced and work done Services rendered to other organisations (b)	£'000	59,755	107,925	129,339 702
regenter service and services and and a service and a s				7,321
Goods merchanted or factored Canteen takings		4,752	5,264	196
Canteen takings		/		
Total sales and work done	The second se	64,507	113,189	137,559
Change during the year, goods on hand for sale	Ш	+ 148	+ 587	+ 1,401
Change during the year, work in progress	н	+ 184	+ 1,748	+ 1,427
Gross output	П	64,839	115,524	140,387
Cost of purchases	П	27,959	53,510	71,356
	1 01 1200	1.1.7	5.6	statereducit
Change during the year, stocks of materials, stores and fuel	п	+ 487	+ 1,590	+ 2,352
Payments to other organisations	-			Sast Anglie
for work done on materials given out	П	1,388	2,015	2,154
for transport by road	н н.	15.51	1,228	1,608
for transport by rail, water, air and	24 <u>5</u> 23 7	714	127	497
Post Office parcel services (c)	I . I U GOR , E	· (.84	121	bine ( pp)
Total costs	п	29,574	55,290	73,263
Net output	1	35,266	60,234	67,124
Total employment (including working	-		-	treet Britain
proprietors) (d)	Thousands	23.4	29.9	27.5
Net output per head	£	1,505	2,017	2,439

(a) See definition of establishments in notes on page (iii).

(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.

(c) For 1963 and 1968, payments for postal services are excluded.

Internation data variable, 1

(d) Average number of persons employed during the year.

# TABLE 7

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 25 or more persons, 1970.

Accounting year ended	Percentage of total returns received	Percentage of total numbers employed
	per cent	per cent
970 April (a)	3.1	2.9
May	1.3	0.5
June	3.1	1.5
July	5.0	4.8
August	3.8	1.3
September	4.4	3.1
October	6.3	3.5
November	0.6	0.5
December	33.1	41.1
971 January	5.6	5.7
February	1.9	0.8
March (b)	31.8	34.3
The particular that	100.0	100.0

(a) From 6th April.

(b) Including returns made for twelve-month period ending 1st to 5th April 1971.

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#### Notes

These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information about the census is given in a separate booklet—"Introductory Notes", Part C1 of the Report on the Census of Production for 1970).

# GENERAL INFORMATION

Changes compared with 1968 The questions asked in the 1970 census were similar to those in the 1968 census with certain exceptions. In particular the 1970 census returns did not ask for details of :---

- (i) purchases or sales by commodities
- (ii) payments of rates
- (iii) payments for repairs and maintenance
- (iv) costs of operating road goods vehicles.

The amounts payable to other organisations for transport of goods however, did include the cost of the Post Office parcel services.

Other changes concern the treatment of firms employing less than 25 persons and the rules used for classifying establishments to industry. Any such changes are explained in the following paragraphs, or in the introductions to the industry reports, or by footnotes to the tables.

#### Industrial classification

Establishments were classified to industries on the basis of major activity in conformity with the third edition of the Standard Industrial Classification (Revised 1968). Normally an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than in its sales of the principal products of any other industry. Classification of an establishment in this census was based on the establishment's return to the Census of Production, 1968.

Establishments added to the register subsequent to the 1968 census were classified on the basis of the description of the business given by the respondent.

#### Coverage

Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but in industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments whose employment was not known to the Business Statistics Office at the time of despatch; if their employment was below the exemption limit for their industry establishments were asked to supply figures only of total employment and total sales.

#### 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 and (b) all other employees (operatives). Averages could be calculated from 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 establishments) 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 fixed 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 managing and other directors in receipt of a definite wage, salary or commission, managers, superintendents and works foremen; research, experimental development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers, and cleaners. Operators engaged in outside work of erecting, fitting etc. are also included, but outworkers are excluded.

# Capital expenditure

#### (a) New building work

This represents the cost incurred during the year of new building and other constructional work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). 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 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 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 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. 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.

Capital expenditure during the year in respect of manufacturing establishments where production had not started before the end of the year is excluded from the figures for both 1963 and 1968 but is included in the figures for 1970.

#### Enterprise

The term enterprise is used in this report to mean one or more establishments under common ownership or control. An enterprise normally consists of a single establishment, more than one establishment owned by the same firm, or a number of establishments owned by a parent company and its subsidiary companies. Information about the relationship between constituent companies of enterprises was obtained mainly from published sources such as the Stock Exchange Year Book supplemented by information from company reports and information supplied by establishments. The information available is not complete but covers the largest and most important groups of industrial establishments and is believed sufficient to provide a worthwhile basis for analysis.

#### Establishment

The definition of the establishment differed between the Censuses for 1963, 1968 and 1970. The definitions used were as follows:— 1963: the establishment was normally the premises under the same ownership or management at a particular address.

1968: the establishment was defined, in accordance with Standard Industrial Classification (Revised 1968), as being the smallest unit which could provide the information normally required for an economic census, for example, employment, expenses, turnover and capital formation. Sometimes activities which are conducted as a single business are carried on at a number of addresses. In 1968 where the activities of such a business were closely integrated and the addresses, termed local units, were in close proximity the establishment was defined to cover the combined activities and a single return was accepted. When the activities were closely integrated but the addresses were not in close proximity a combined return was accepted but the individual addresses were treated-in the count of establishments in an industry, for instance—as separate establishments.

1970: the practice of treating as multi-unit establishments those businesses with closely integrated activities at a number of addresses in close proximity was extended to all those businesses where the local units were at more than one geographical location and detailed census information was not available for each unit. Separate figures were obtained, however, of employment and capital expenditure at each unit. The effect of this change is to reduce somewhat the number of establishments as compared with 1968.

#### Gross output

Gross output measures the total value of production (including work done) by establishments during the year. It is calculated as follows:—

#### Value of sales and work done

 $\ensuremath{\mathsf{Plus}}\xspace/\ensuremath{\mathsf{Less}}\xspace$  in value of stocks of goods on hand for sale

#### Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchanted or factored goods). It is calculated as follows:—

- Gross output Less: Purchases adjusted for change in value of stocks of fuel
- and raw materials Less: Payments for work given to other establishments
- Less: Payments for transport
- Less: Net amount of any duties, subsidies, allowances and levies payable
- = Net output.

#### Net output per person employed

The figures of net output per person employed are derived by dividing the net output by the average number of persons employed (full time 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, plants 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 included. In general, purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including an establishment's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivery cost if invoiced "carriage paid home". Materials and fuel transferred from another department of the establishment not covered by the same return are included at the estimated selling value recorded by the other department.

#### Sales

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other establishments from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the establishment's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchanted or factored) and canteen takings are included.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were 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 were kept were valued on the same basis.

To the extent that sales of finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates of the figures for a number of industries contain significantly greater amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

#### Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other services rendered to other organisations. It includes amounts credited for similar services rendered to other establishments of the same enterprise not covered by the return.

## Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (Revised 1968). It is published by H M Stationery Office together with a separate index in the form of an alphabetical list of industries.

#### Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during, the year are also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

#### Transport payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payment to other establishments, and to any separate transport organisation of the same establishment not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

#### 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 is excluded.

#### Work given out

The figures shown represent the total amount paid for work done by other establishments (whether part of the same enterprise or not) on materials supplied to them. They do not include payments to individual outworkers or payments for business and other services.

# SYMBOLS USED

The following symbols are used throughout the report:

- .. not available.
- nil or negligible (less than half the last significant figure)
   figures cannot be shown owing to risk of disclosing
- information about individual enterprises.

#### ROUNDING OF FIGURES

Figures in the tables have, where necessary, been rounded to the nearest final digit; there may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.



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