

Publication of the Government Statistical Service

# Business Monitor

DEPARTMENT OF TRADE AND INDUSTRY BUSINESS STATISTICS OFFICE

# Report on the Census of Production 1970

# C65 Ordnance and small arms

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



LONDON: HER MAJESTY'S STATIONERY OFFICE

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# **BUSINESS STATISTICS OFFICE**

# 1970

# C65 Ordnance and small arms

## Presented by the Department of Trade and Industry (10 & 11 Geo. 6 Cha. 39 sec 7)

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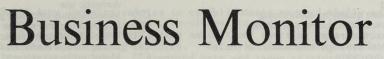
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Publication of the Government Statistical Service



DEPARTMENT OF TRADE AND INDUSTRY

# Report on the Census of Production

to Parliament in pursuance of the Statistics of Trade Act 1947

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Leather (tanning and dressing) and

Men's, and boys' tailored outerwear

Dresses, lingerie, infants wear, etc.

Bricks, fireclay and refractory goods

Furniture and upholstery Bedding and soft furnishing Shop and office fittings Wooden containers and baskets

Women's and girls' tailored outerwear

Overalls and men's shirts, underwear, etc.

Corsets and miscellaneous dress industries

Miscellaneous building materials and mineral

Miscellaneous wood and cork manufacturers

Cardboard boxes, cartons and fibre-board

Packaging products of paper and associated materials (other than board)

Printing, publishing of newspapers and

periodicals General printing, publishing, etc.

Linoleum, plastics floor covering,

Sports equipment Miscellaneous stationers' goods

Toys, games and children's carriages

Miscellaneous manufacturing industries

Miscellaneous manufactures of paper and board

C100 Weaving of cotton, linen and man-made fibres C101 C102 Woollen and worsted

Narrow fabrics Made-up household textiles and handkerchiefs

This report on the Ordnance and Small Arms Industry relates to establishments engaged wholly or mainly in manufacturing guns, machine guns, mortars, rifles, pistols, revolvers, torpedoes, shell cases and components, bomb cases and components, cases and components for small arms ammunition, sporting guns, air rifles, etc; swords, bayonets, etc; and tracked armoured fighting vehicles. Establishments making live military ammunition which also make cases for it are included. Armoured cars and troop carriers are excluded.

The industry corresponds to minimum list heading 342 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 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

There are no Northern Ireland establishments included in this report for 1970.

C65 Ordnance and small arms

part 65.

METHOD OF CLASSIFICATION

where detailed product sales were available.

Fireworks and Matches (part C39).

1968)

The standard procedure for classifying an establishment to an industry is described in the note on page (iv). Certain modifications of the standard procedure were necessary, however, for the Ordnance and Small Arms Industry; references in the following paragraphs to returns are to those in the 1968 Census of Production

Establishments whose principal output was live ammunition were classified to this industry only if the establishments concerned also manufactured the ammunition cases: otherwise they were classified to Explosives,

In classifying other returns within the mechanical engineering group of industries the value of unspecified In classifying other returns within the mechanical engineering group of industries the value of unspectived 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 the 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 group of industries (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 interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

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## TABLE 1

Net output, 1963, 1968 and 1970

All United Kingdom establishments classified to the industry (a)

Establishments"83767Sales of goods produced and work done£'00053,52263,07266,88Services rendered to other organisations (b)"1,2831,62766Goods merchanted or factored"1,2831,62766Canteen takings"54,80564,69962,69Change during the year, goods on hand for sale"-147+368+27Change during the year, work in progress"-147+368+27Gross output"57,50165,96567,64Cost of purchases"19,79224,34533,41Change during the year, stocks of"-760-264+3,10Payments to other organisations"1,5531,6191,62317for transport by road"1,5531,6191,62317Mark done on materials given out"1,5531,6191,62for transport by road"106435Mark done on starials given out"22,21126,30232,06Mark done on materials given out"35,29139,66335,57Total costs"23,0191919Proprietors) (d)Thousands31.523.019			Unit	1963	1968	1970
Sales of goods produced and work done       \$2000       53,522       63,072       66,88         Services rendered to other organisations (b)       "       1,283       1,627       66         Goods merchanted or factored       "       1,283       1,627       66         Canteen takings       "       54,805       64,699       62,69         Change during the year, goods on hand for sale       "       -       147       +       368       +       27         Change during the year, work in progress       "       57,501       65,965       67,644         Cost of purchases       "       19,792       24,345       33,41         Change during the year, stocks of       "       -       760       -       264       +       3,10         Payments to other organisations       "       1,553       1,619       1,62       31       7         for transport by road       "       1,553       1,619       1,62       31       7         Total costs       "       22,211       26,302       32,06       31.5       23.0       19         Most other organisations       "       1,221       1,726       1,81         Total costs       "       22,211 <t< td=""><td></td><td>21000 2 2 2 2 1000</td><td></td><td></td><td>Entry S</td><td>72 78</td></t<>		21000 2 2 2 2 1000			Entry S	72 78
Services rendered to other organisations (b)       n       53,522       63,072       16         Goods merchanted or factored       n       1,283       1,627       6         Canteen takings       n       54,805       64,699       62,699         Change during the year, goods on hand for sale       n       57,501       65,965       67,64         Change during the year, work in progress       n       57,501       65,965       67,64         Cost of purchases       n       57,501       65,965       67,64         Cost of purchases       n       57,501       65,965       67,64         Change during the year, stocks of materials, stores and fuel       n       -       760       -       264       +       3,10         Payments to other organisations       n       1,553       1,619       1,62         for transport by real, water, air and Post Office parcel services (c)       n       35,291       39,663       35,57         Total costs       n       22,211       26,302       32,00       19         Net output       n       35,291       39,663       35,57         Total costs       n       21,121       1,726       1,81         (a) Including estimates for establishments not			T		aron 1	gaiblind an
Services rendered to other organisations (b) Goods merchanted or factored Canteen takings Total sales and work done Change during the year, goods on hand for sale Change during the year, goods on hand for sale Change during the year, goods on hand for sale Change during the year, socks of materials, stores and fuel Payments to other organisations for work done on materials given out for transport by read Net output Total costs Net output per head (a) Including estimates for establishments not making satisfactory returns and for establishments exploying less than 25 persons. (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.	Sales of goods pro	duced and work done	£'000	h	and bit don't go l	60,886
Goods merchanted or factored       1       1,283       1,627       1,59         Canteen takings       1       1,283       1,627       6         Total sales and work done       1       54,805       64,699       62,69         Change during the year, work in progress       1       -       147       +       368       +       2.7         Gross output       1       57,501       65,965       67,64         Cost of purchases       19,792       24,345       33,41         Change during the year, stocks of materials, stores and fuel       1       -       760       -       264       +       3,10         Payments to other organisations       1       1,553       1,619       1,627       1			п	53,522	63,072	160
Canteen takings"54,80564,69962,69Change during the year, goods on hand for sale"-147+368+27Change during the year, work in progress"-147+368+27Gross output"57,50165,96567,64Cost of purchases"19,79224,34533,41Change during the year, stocks of materials, stores and fuel"-760-264+3,10Payments to other organisations for transport by road"1,5531,6191,62Total costs"122,21126,30232,06Net output"35,29139,66335,57Total employment (including working proprietors) (d)Thousands31.523.019.Net output per head£1,1211,7261,81(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.4.1.1.(b)Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered1.(c)For 1963 and 1968, payments for postal services are excluded			П	1 1 292	1 697	1,590
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Change during the year, goods on hand for sale       - <t< td=""><td>Total sales</td><td>and work done</td><td>II</td><td>54,805</td><td>64,699</td><td>62,699</td></t<>	Total sales	and work done	II	54,805	64,699	62,699
Change during the year, work in progress       1       2,944       1       599       1       4,66         Gross output       1       57,501       65,965       67,64         Cost of purchases       19,792       24,345       33,41         Change during the year, stocks of materials, stores and fuel       1       -       760       -       264       +       3,10         Payments to other organisations       1       1,553       1,619       1,62       31       7         for transport by road       1       1,553       1,619       1,62       31       7         for transport by rail, water, air and Post Office parcel services (c)       1       106       43       5         Met output       1       35,291       39,663       35,57         Total costs       1       22,211       26,302       32,06         Net output       1       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.	Change during the	year, goods on hand for sale	, 11	- 147	+ 368	+ 271
Gross output       57,501       65,965       67,943         Cost of purchases       "       19,792       24,345       33,41         Change during the year, stocks of materials, stores and fuel       "       -       760       -       264       +       3,10         Payments to other organisations       "       -       760       -       264       +       3,10         Payments to other organisations       "       1,553       1,619       1,62         for transport by road       "       1,553       1,619       1,62         for transport by rail, water, air and       "       106       43       5         Most Office parcel services (c)       "       22,211       26,302       32,06         Net output       "       35,291       39,663       35,57         Total costs       "       23,0       19         Net output       Thousands       31.5       23.0       19         Net output per head       £       1,121       1,726       1,81         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       19       1,121       1,726       1,81         (b) Amounts charged for hiring out plant, machinery	Change during the	year, work in progress		+ 2,844	+ 899	+ 4,670
Cost of purchases       19, 192       24,343       33,41         Change during the year, stocks of materials, stores and fuel       "       -       760       -       264       +       3,10         Payments to other organisations       "       1,553       1,619       1,62         for transport by road       "       1,553       1,619       1,62         for transport by rail, water, air and       "       106       43       5         Total costs       "       22,211       26,302       32,06         Net output       "       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	Gross output		11 II I	57,501	65,965	67,641
materials, stores and fuel       - 760       - 264       + 3,10         Payments to other organisations       - 760       - 264       + 3,10         for work done on materials given out       - 1,553       1,619       1,62         for transport by road       - 106       31       7         for transport by rail, water, air and       - 26,302       32,06         Material costs       - 26,302       32,06         Net output       - 35,291       39,663       35,57         Total costs       - 31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	Cost of purchases		11	19,792	24,345	33,419
Payments to other organisations       "       1,553       1,619       1,62         for transport by road       "       1,553       1,619       1,62         for transport by rail, water, air and       "       106       43       5         Total costs       "       22,211       26,302       32,06         Net output       "       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	Change during the materials, stores	year, stocks of and fuel	Ц	- 760	- 264	+ 3,108
for work done on materials given out       1,553       1,619       1,02         for transport by road       31       7         for transport by rail, water, air and       106       31       7         Post Office parcel services (c)       11       106       43       5         Total costs       11       22,211       26,302       32,06         Net output       11       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       10       1,121       1,726       1,81         (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.	Payments to other	organisations	]	and an are an	to sectore at	trov too pris
for transport by road       31       31       43         for transport by rail, water, air and Post Office parcel services (c)       106       43       5         Total costs       11       22,211       26,302       32,066         Net output       11       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	for work done or	materials given out		1,553	1,619	1,625
for transport by rail, water, air and Post Office parcel services (c)       1       100       43       5         Total costs       1       22,211       26,302       32,06         Net output       1       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.					31	73
Total costsII22,21126,30232,06Net outputIII35,29139,66335,57Total employment (including working proprietors) (d)Thousands31.523.019.Net output per head£1,1211,7261,81(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.(a)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.					4	56
Net output       III       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	285.1		I	99,911		22.065
Net output       35,291       39,663       35,57         Total employment (including working proprietors) (d)       Thousands       31.5       23.0       19.         Net output per head       £       1,121       1,726       1,81         (a)       Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.       (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.	lotal costs		al	22,211	26,302	32,060
proprietors) (d)Thousands31.523.019.Net output per head£1,1211,7261,81(a)Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.19.(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.	Net output			35,291	39,663	35,575
<ul> <li>(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.</li> <li>(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.</li> <li>(c) For 1963 and 1968, payments for postal services are excluded.</li> </ul>		including working	Thousands	31.5	23.0	19.6
<ul> <li>(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 25 persons.</li> <li>(b) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.</li> <li>(c) For 1963 and 1968, payments for postal services are excluded.</li> </ul>	Net output p	er head	£	1,121	1,726	1,813
	(a) Including ea	stimates for establishments n	ione:	to bejetat et	sear out to bea	taligation defense the
(d) Average number of persons employed during the year.	(b) Amounts chan	rged for hiring out plant, ma r other services rendered.	achinery or other	r goods, for prov	iding transport,	or for any
	(b) Amounts chan technical o	r other services rendered.			iding transport,	or for any
	<ul> <li>(b) Amounts chan technical o</li> <li>(c) For 1963 and</li> </ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any
	<ul><li>(b) Amounts chan technical o</li><li>(c) For 1963 and</li></ul>	r other services rendered. d 1968, payments for postal a	services are excl		iding transport,	or for any

#### TABLE 2

Capital expenditure and stocks, 1963, 1968 and 1970

All United Kingdom establishments classified to the industry (a)

presents appression and the second	1963	1968	1970 (b)
Capital expenditure	£'000	£'000	£'000
New building work	212	614	1,107
Land and existing buildings Acquisitions	+ 503	+ 83	- 128
Disposals	1	a berezet av	Goods servicence
Plant and machinery			spains takings
Acquisitions	2,271	3,043	4,780
Disposals	532	382	185
Vehicles	progress	W year, work in	Change during t
Acquisitions	78	153	152
Disposals	29	28	24
Total net capital expenditure (c)	2,503	3,482	5,701
Stocks and work in progress at end of year		encliesinegso v	Payments to oth
Materials, stores and fuel	6,685	9,412	12,180
Work in progress	21,231	19,104	24,582
Goods on hand for sale	968	1,369	1,482
Total stocks	28,885	29,885	38,244

Marilens 14

(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.

#### TABLE 3

## Analysis of establishment by size, 1970

All United Kingdom establishments classified to the industry (a)

	an an an			Employ	ees	Wages and	salaries	Wages and per h		Total			Net	Capital	Total stocks and work in
Size group (b)	Enterprises	Estab- lishments	Total employment (b)	Operatives	Others (c)	Operatives	Others (c)	Operatives	Others (c)	sales and work done (d)		Net output	output per head	expenditure (net) (e)	progress at end of year
	Number	Numbe r	Number .	Numbe r	Number	£'000	£'000	£	£	£,000	£'000	£'000	£	£'000	£'000
1–99	60	60	1,190	912	270	1,016	383	1,114	1,419	4,371	4,427	2,513	2,112	359	1,584
100–299	4	.4	714	472	242	603	371	1,278	1,533	3,910	4,698	1,770	2,479	181	4,145
300-499	4	4	1,565	1,010	554	1,163	762	1,152	1,376	4,053	5,102	2,987	1,909	30	4,375
500-and over	4	10	16,156	12,334	3,822	15,134	6,282	1,227	1,644	50,366	53,415	28,305	1,752	5,132	28,140
Total	72	78	19,625	14,728	4,888	17,915	7,796	1,216	1,595	62,699	67,641	35,575	1,813	5,701	38,244

- (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) Administrative, technical and clerical employees.

(d) 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).

C65.5

(e) Acquisitions less disposals.

#### TABLE 4

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

All United Kingdom establishments classified to the industry

Ages	Ma	les	in the second se		Females	A	ll employees
the second second second	per		per cent			per cent	
Under 18	2	2	122		1	put	3
18 and over	71		1		26	Det: Det:	97
All ages	78	1 24 1	8	2 6	27	1 Brook	100.0

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1970.

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iet Accession ( ) can be a set of the						
		8				

TABLE 5

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

Area	employed (a)			apital ture (b)	establishme	Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (c)					
	30	32			Cherr cmpro		hat expressed				
27	40	48			Estimated net	Average number employed as a	Net output as percentage of				
58,902		1			output	percentage of	total of the				
	62,136	8,010			sotions (a)	total average number employed in the industry in the region	industry in the United Kingdom				
∫ €92						t styfaclored	vicoda serebasi e				
19-2012	Thousands	per cent	£'000	per cent	£'000	0.5	Contona cedinas				
Bugenet 90,092 restanting	69,740	of United Kingdom		of United Kingdom		omb sines has as	ion invol				
	+ 362	146		0.9	hand for anic		Change during t				
Standard Regions of England	+ 886	2,817			6593303	g si sion , teev es	Change during t				
North 000,00	. *	* 2.70.8	*	*	*	*	* Stan ana B				
Yorkshire and Humberside	23 <b>#</b> 979	*208.6	*	*	*		Cost of purchas				
East Midlands	*	*	*	*	*	*	* ·				
East Anglia	900			0.6	-		i şairub əşnadü rəfərinin əfər				
South East	3.5	17.8	908	15.9	6,561	89.1	18.4				
South West	*	*	*	*	*	*	*				
West Midlands	3.3	16.8	709	12.4	4,873	96.3	13.8				
North West	¥	*	*	*	*	* bees 26	tor <sub>*</sub> tenaport				
England	*	*	*	*	*100 11	by rates, water, a	for *) raisport				
Wales	*	*	*	*	*	(d) acoreces (b) *	*				
Scotland \$28,08	809-83	-000,1	8 -	<u>B</u> -	-		-Total ces				
Great Britain	19.6	100.0	5,701	100.0	34,076	96.4	95.8				
Northern Ireland	-	-	-	-	-	rinow patheloui) :	norvalans level				
Unallocated (d)	22.8	31.2-		a exe der	1,499	- 3	4.2				
United Kingdom	19.6	100.0	5,701	100.0	35,575	per ma	100.0				
The second se	and a second	- la secondaria a secondaria	and the second				**************************************				

(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.

C65.6

(a) Including working proprietors.

## C65.8

#### TABLE 6

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

.

persons, 1965, 1966 and 1975	Ter (			1
to compare will be tanked one destroy of	Unit	1963	1968	1970
Enterprises	Number	32	30	21
Establishments		46	40	27
Sales of goods produced and work done	£'000		60.100	58,902
Services rendered to other organisations (a)	П	53,010	62,138	138
Goods merchanted or factored	Ш	1 071	1,602	992
Canteen takings	II Det cen	1,271	1,002	61
Total sales and work done	be i she bad ing	54,281	63,740	60,092
Change during the year, goods on hand for sale	II	- 146	+ 362	+ 239
Change during the year, work in progress	Ш	+ 2,817	+ 886	+ 4,669
Gross output	Ш	56,952	64,989	65,000
Cost of purchases	II .	19,603	23,979	32,347
Change during the year, stocks of materials, stores and fuel		- 753	- 260	+ 3,086
Payments to other organisations	e.31 8	B.71		South Sast
for work done on materials given out	II.	1,538	1,596	1,556
for transport by road	II		31	66
for transport by rail, water, air and Post Office parcel services (b)	п		43	41 have to
Total costs	П	21,999	25,909	30,924
Net output	0.000 10	34,953	39,081	34,076
Total employment (including working				thern Ireland
proprietors) (c)	Thousands	31.2	22.6	18.9
Net output per head	£	1,121	1,726	1,802

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

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

## (c) 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.

11.118

Accounting year ended	Percentage of total returns received	Percentage of total numbers employed
. Ltd. payments for repairs at first even of severation read	per cent	per cent
970 April (a)	7.4	1.0
May	0.0	0.0
June	0.0	0.0
July	3.7	0.5
August	0.0	0.0
· September	3.7	2.0
October	0.0	0.0
November	0.0	0.0
December	33.3	20.8
1971 January	7.4	1.3
February	0.0	0.0
March (b)	44.5	74.4
given by the Lippondess.	100.0	100.0

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

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

and another and							
en al purchanes 0.0							
				. 4			

#### Notes

These notes give the main information needed for interpreting office) employees. the figures in the industry reports, (more detailed information Operatives include all other classes of employees, that is, about the census is given in a separate booklet—"Introductory broadly speaking, all manual wage earners. They include those Notes", Part C1 of the Report on the Census of Production for employed in and about the factory or works; operatives em-1970). ployed in power houses, transport work (including roundsmen), stores, warehouses, shops and canteens; inspectors, viewers and GENERAL INFORMATION similar workers; maintenance workers, and cleaners. Operators Changes compared with 1968 engaged in outside work of erecting, fitting etc. are also included, The questions asked in the 1970 census were similar to those in but outworkers are excluded.

the 1968 census with certain exceptions. In particular the 1970 census returns did not ask for details of :----

- (i) purchases or sales by commodities

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.

(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

The items shown are the value of plant and machinery and of was based on the establishment's return to the Census of vehicles acquired, both new and second-hand, and the amount Production, 1968. received for items disposed of during year. The value of plant Establishments added to the register subsequent to the 1968 cenand machinery acquired includes plant, etc., which firms prosus were classified on the basis of the description of the business duced for their own use in connection with the business covered given by the respondent. by the return. The value of plant, etc., acquired is the expenditure charged to capital account during the year of return less any Coverage discounts received, but including the cost of transport and Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but installation. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during in industries where firms employing less than 25 persons account the year exclude amounts written off for items scrapped. 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

#### Capital expenditure

#### (a) New building work

#### (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

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

Plus/Less: Increase/decrease in value of stocks of goods on hand for sale

Plus/Less: Increase/decrease in value of work in progress Gross output.

#### 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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