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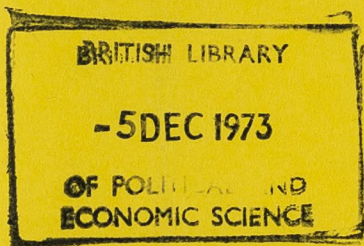
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Publication of the Government Statistical Service

# Business Monitor

DEPARTMENT OF TRADE AND INDUSTRY  
BUSINESS STATISTICS OFFICE



## Report on the Census of Production 1970

C150 Musical instruments  
Miscellaneous manufacturing industries

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Publication of the Government Statistical Service

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DEPARTMENT OF TRADE AND INDUSTRY  
BUSINESS STATISTICS OFFICE

## Report on the Census of Production 1970

### C150 Musical instruments Miscellaneous manufacturing industries

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)

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C150 Musical instruments  
Miscellaneous manufacturing industries

This report on the Musical Instruments and Miscellaneous Manufacturing Industries relates to establishments engaged wholly or mainly in manufacturing (i) pianos (including automatic and player pianos), all types of wind, string and percussion instruments including electronic musical instruments, the repairing, rebuilding and tuning of organs (but not including the manufacture of gramophones and gramophone records); and (ii) button and button moulds, imitation jewellery, incandescent mantles, firelighters, granulated peat and peat products, certain types of fancy articles and miscellaneous products not reported on elsewhere, the purifying and dressing of feathers and down are also included.

The industries correspond to minimum list headings 499(1) and 499(2) respectively in the Standard Industrial Classification (revised 1968) which was used for the first time as a basis of classification in the 1968 census, when they were reported as part 150.

Prior to 1970, for census purposes, musical instruments formed part of the Miscellaneous Manufacturing Industries and separate figures are not available. The report is therefore presented in three parts:-  
A. Musical Instruments and Miscellaneous Manufacturing Industries, 1963, 1968 and 1970: B. Musical Instruments, 1970: C. Miscellaneous Manufacturing Industries, 1970. The figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (revised 1968).

In these industries establishments employing less than 25 persons account for a relatively large proportion of employment and output and therefore for 1970 the full range of information was requested from all establishments employing 11 or more persons.

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

Table No	Title	Page
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1	Net output, 1963, 1968 and 1970 - Establishments classified to the industries	
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	1b Separate analysis, 1970	C150.4
2	Capital expenditure and stocks, 1963, 1968 and 1970 - Establishments classified to the industries	
	2a Combined analysis, 1963, 1968 and 1970	C150.5
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4	Percentage analysis of employees by age and sex, 1970 - Establishments classified to the industries	C150.10
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Net output, 1963, 1968 and 1970

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries (a)

	Unit	1963	1968	1970
Enterprises	Number	749	775	793
Establishments (b)	"	814	841	805
Sales of goods produced and work done	£'000	35,696	54,337	63,028
Services rendered to other organisations (c)	"			
Goods merchanted or factored	"	2,226	3,512	6,455
Canteen takings	"			
<b>Total sales and work done</b>	"	37,922	57,849	69,857
Change during the year, goods on hand for sale	"	+ 187	+ 187	+ 292
Change during the year, work in progress	"	+ 187	+ 184	+ 496
<b>Gross output</b>	"	38,297	58,221	70,646
Cost of purchases	"	17,100	25,561	33,980
Change during the year, stocks of materials, stores and fuel	"	+ 365	+ 335	+ 1,017
Payments to other organisations				
for work done on materials given out	"	468	1,071	824
for transport by road	"	493	670	858
for transport by rail, water, air and Post Office parcel services (d)	"		178	386
<b>Total costs</b>	"		17,696	27,145
<b>Net output</b>	"	20,601	31,076	35,615
Total employment (including working proprietors) (e)	Thousands	22.0	21.7	21.3
<b>Net output per head</b>	£	935	1,430	1,668

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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.

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

TABLE 2b

C150.6

## Capital expenditure and stocks, 1970 (a)

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries (a)

	Musical instruments	Miscellaneous manufacturing industries
	£'000	£'000
Capital expenditure		
New building work	116	396
Land and existing buildings		
Acquisitions	62	144
Disposals	-	116
Plant and machinery		
Acquisitions	174	900
Disposals	5	34
Vehicles		
Acquisitions	97	406
Disposals	39	155
<b>Total net capital expenditure (c)</b>	<b>405</b>	<b>1,542</b>
Stocks and work in progress at end of year		
Materials, stores and fuel	2,290	4,838
Work in progress	1,614	2,035
Goods on hand for sale	1,539	2,384
<b>Total stocks</b>	<b>5,443</b>	<b>9,256</b>

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

(b) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 persons.

(c) Acquisitions less disposals.

TABLE 1b

C150.4

Net output, 1970

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries (a)

	Unit	Musical instruments	Miscellaneous manufacturing industries
Enterprises	Number	148	645
Establishments (b)	"	152	653
Sales of goods produced and work done	£'000	15,104	47,924
Services rendered to other organisations (c)	"	213	116
Goods merchanted or factored	"	2,058	4,397
Canteen takings	"	10	36
<b>Total sales and work done</b>	"	17,384	52,473
Change during the year, goods on hand for sale	"	+ 190	+ 102
Change during the year, work in progress	"	+ 276	+ 220
<b>Gross output</b>	"	17,850	52,796
Cost of purchases	"	8,594	25,386
Change during the year, stocks of materials, stores and fuel	"	+ 391	+ 626
Payments to other organisations	"		
for work done on materials given out	"	160	664
for transport by road	"	93	765
for transport by rail, water, air and Post Office parcel services	"	83	303
<b>Total costs</b>	"	8,539	26,492
<b>Net output</b>	"	9,311	26,304
Total employment (including working proprietors) (d)	Thousands	5.2	16.2
<b>Net output per head</b>	£	1,799	1,627

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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) Average number of persons employed during the year.

TABLE 2a

C150.5

Capital expenditure and stocks, 1963, 1968 and 1970

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries (a)

	1963	1968	1970 (b)
Capital expenditure	£'000	£'000	£'000
New building work	313	362	512
Land and existing buildings			
Acquisitions	30	191	206
Disposals	5	268	116
Plant and machinery			
Acquisitions	800	1,005	1,074
Disposals	20	37	39
Vehicles			
Acquisitions	338	438	503
Disposals	113	174	194
<b>Total net capital expenditure (c)</b>	1,342	1,517	1,947
Stocks and work in progress at end of year			
Materials, stores and fuel	3,515	5,591	7,128
Work in progress	2,215	2,793	3,648
Goods on hand for sale	1,911	2,753	3,923
<b>Total stocks</b>	7,641	11,136	14,699

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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 less disposals.

TABLE 3 a

Analysis of establishment by size, 1970

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries (a)

Size group (b)	Enterprises (c)	Estab-lishments (d)	Total employment (b)	Employees		Wages and salaries		Wages and salaries per head		Total sales and work done (f)	Gross output	Net output	Net output per head	Capital expenditure (net) (g)	Total stocks and work in progress at end of year
				Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)						
	Number	Number	Number	Number	Number	£'000	£'000	£	£	£'000	£'000	£'000	£	£'000	£'000
1-10	483	483	2,583	3,923	772	3,074	898	783	1,163	15,793	15,863	7,667	1,515	311	2,205
11-24	141	144	2,479												
25-49	77	79	2,954	2,441	411	1,930	654	791	1,592	9,794	9,894	4,982	1,686	330	2,050
50-99	51	53	3,374	2,709	608	2,161	847	798	1,393	12,887	12,879	6,037	1,789	428	2,736
100-199	29	32	4,089	3,348	713	3,033	1,020	906	1,431	13,755	14,126	7,491	1,832	369	3,420
200-299	7	7	1,979	1,661	316	1,359	510	818	1,614	5,249	5,411	3,245	1,640	193	1,403
300 and over	6	7	3,890	3,085	805	2,130	969	690	1,204	12,379	12,473	6,193	1,592	316	2,886
<b>Total</b>	793	805	21,348	17,167	3,625	13,685	4,898	797	1,351	69,857	70,646	35,615	1,668	1,947	14,699

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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.

TABLE 3b

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

Size group (b)	Enterprises (c)	Estab-lishments (d)	Total employment (b)	Employees		Wages and salaries		Wages and salaries per head		Total sales and work done (f)	Gross output	Net output	Net output per head	Capital expenditure (net) (g)	Total stocks and work in progress at end of year
				Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)						
	Number	Number	Number	Number	Number	£'000	£'000	£	£	£'000	£'000	£'000	£	£'000	£'000
1-10	81	81	416	738	82	692	130	938	1,589	2,335	2,352	1,310	1,451	59	644
11-24	29	29	487												
25-49	14	14	547	460	77	422	130	917	1,694	1,297	1,296	855	1,564	21	381
50-99	12	12	724	616	100	605	156	983	1,564	3,805	3,828	1,698	2,346	92	1,338
100-199	12	12	1,441	1,172	252	1,230	359	1,050	1,424	5,205	5,441	2,689	1,866	90	1,559
200 and over	4	4	1,561	1,068	493	1,038	628	972	1,275	4,742	4,934	2,758	1,767	143	1,522
<b>Total</b>	<b>148</b>	<b>152</b>	<b>5,176</b>	<b>4,054</b>	<b>1,004</b>	<b>3,988</b>	<b>1,404</b>	<b>984</b>	<b>1,399</b>	<b>17,384</b>	<b>17,850</b>	<b>9,311</b>	<b>1,799</b>	<b>405</b>	<b>5,443</b>

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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.

C150.8

TABLE 3c

Analysis of establishment by size, 1970  
All United Kingdom establishments classified to the Miscellaneous manufacturing industries (a)

Size group (b)	Enterprises (c)	Estab-lishments (d)	Total employment (b)	Employees		Wages and salaries		Wages and salaries per head		Total sales and work done (f)	Gross output	Net output	Net output per head	Capital expenditure (net) (g)	Total stocks and work in progress at end of year
				Operatives	Others (e)	Operatives	Others (e)	Operatives	Others (e)						
	Number	Number	Number	Number	Number	£'000	£'000	£	£	£'000	£'000	£'000	£	£'000	£'000
1-10	402	402	2,167	3,185	690	2,381	767	748	1,112	13,458	13,511	6,357	1,528	252	1,561
11-24	112	115	1,992												
25-49	65	65	2,407	1,981	334	1,508	524	761	1,569	8,498	8,599	4,126	1,714	309	1,669
50-99	40	41	2,650	2,093	508	1,555	690	743	1,359	9,082	9,051	4,339	1,637	336	1,398
100-199	19	20	2,648	2,176	461	1,802	661	828	1,435	8,550	8,685	4,802	1,814	279	1,861
200 and over	9	10	4,308	3,678	628	2,450	851	666	1,355	12,886	12,950	6,679	1,550	366	2,768
<b>Total</b>	<b>645</b>	<b>653</b>	<b>16,172</b>	<b>13,113</b>	<b>2,621</b>	<b>9,697</b>	<b>3,494</b>	<b>740</b>	<b>1,333</b>	<b>52,473</b>	<b>52,796</b>	<b>26,304</b>	<b>1,627</b>	<b>1,542</b>	<b>9,256</b>

(a) Including estimates for establishments not making satisfactory returns and for establishments employing less than 11 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.

C150.9



TABLE 4

C150.10

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

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries

Ages	Males	Females	All employees
	per cent	per cent	per cent
Under 18	4	5	9
18 and over	49	42	91
All ages	53	47	100.0

Source: Department of Employment

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

TABLE 5a

C150.11

Regional distribution of employment, net capital expenditure and net output, 1970

All United Kingdom establishments classified to the Musical instruments and Miscellaneous manufacturing industries

Area	Average number employed (a)		Net capital expenditure (b)		Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (c)		
	Thousands	per cent of United Kingdom	£'000	per cent of United Kingdom	Estimated net output (£'000)	Average number employed as a percentage of total average number employed in the industry in the region	Net output as percentage of total of the industry in the United Kingdom
Standard Regions of England							
North	0.7	3.1	44	2.3	602	77.0	1.7
Yorkshire and Humberside	1.7	7.8	131	6.7	1,875	69.3	5.3
East Midlands	1.1	5.0	135	6.9	1,717	80.6	4.8
East Anglia	0.5	2.2	177	9.1	351	45.0	1.0
South East	10.0	47.0	773	39.7	13,464	71.4	37.8
South West	0.9	4.4	217	11.2	1,320	69.4	3.7
West Midlands	3.4	15.7	238	12.2	1,509	36.4	4.2
North West	1.8	8.2	84	4.3	1,353	56.3	3.8
England	19.9	93.4	1,799	92.4	22,192	64.0	62.3
Wales	0.9	4.4	92	4.8	916	80.3	2.6
Scotland	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*
Unallocated (d)	-	-	-	-	12,388	-	34.8
United Kingdom	21.3	100.0	1,947	100.0	35,615		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 11 employees, and unallocated net output of establishments covering addresses in two or more regions.

TABLE 5b

C150.12

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

Area	Average number employed (a)		Net capital expenditure (b)		Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (c)		
	Thousands	per cent of United Kingdom	£'000	per cent of United Kingdom	£'000	Average number employed as a percentage of total average number employed in the region	Net output as percentage of total of the industry in the United Kingdom
Standard Regions of England							
North	*	*	*	*	*	*	*
Yorkshire and Humberside	0.3	5.4	4	1.0	256	78.2	2.8
East Midlands	*	*	*	*	*	*	*
East Anglia	*	*	*	*	*	*	*
South East	2.8	54.1	146	38.2	4,655	82.7	50.0
South West	0.3	5.9	*	*	453	92.1	4.9
West Midlands	0.3	6.5	102	25.3	373	90.2	4.0
North West	0.2	4.3	11	2.7	50	12.6	0.5
England	*	*	*	*	*	*	*
Wales	*	*	*	*	*	*	*
Scotland	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	*
Northern Ireland	-	-	-	-	-	-	-
Unallocated (d)	-	-	-	-	1,854	-	19.9
United Kingdom	5.2	100.0	405	100.0	9,311		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 11 employees, and unallocated net output of establishments covering addresses in two or more regions.

TABLE 5c

C150.13

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

Area	Average number employed (a)		Net capital expenditure (b)		Net output and employment in the region of establishments with more than 80 per cent of their employment in the region (c)		
	Thousands	per cent of United Kingdom	£'000	per cent of United Kingdom	£'000	Average number employed as a percentage of total average number employed in the region	Net output as percentage of total of the industry in the United Kingdom
Standard Regions of England							
North	*	*	*	*	*	*	*
Yorkshire and Humberside	1.4	8.5	127	8.2	1,619	67.5	6.2
East Midlands	*	*	*	*	*	*	*
East Anglia	*	*	*	*	*	*	*
South East	7.2	44.7	626	40.6	8,809	68.4	33.5
South West	0.6	4.0	*	*	868	58.8	3.3
West Midlands	3.0	18.7	136	8.8	1,136	30.4	4.3
North West	1.5	9.5	73	4.7	1,303	62.6	5.0
England	*	*	*	*	*	*	*
Wales	*	*	*	*	*	*	*
Scotland	*	*	*	*	*	*	*
Great Britain	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*
Unallocated (d)	-	-	-	-	10,535	-	40.1
United Kingdom	16.2	100.0	1,542	100.0	26,304		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 11 employees, and unallocated net output of establishments covering addresses in two or more regions.

TABLE 6a

C150.14

Analysis of net output of returns received from United Kingdom establishments employing 11 or more persons, 1963, 1968 and 1970

	Unit	1963(a)	1968(a)	1970
Enterprises	Number	142	145	208
Establishments (b)	"	194	198	213
Sales of goods produced and work done	£'000	26,077	39,141	40,573
Services rendered to other organisations (c)	"			
Goods merchanted or factored	"	1,502	2,386	4,575
Canteen takings	"			
<b>Total sales and work done</b>	"	27,579	41,527	45,433
Change during the year, goods on hand for sale	"	+ 125	+ 128	+ 249
Change during the year, work in progress	"	+ 199	+ 129	+ 404
<b>Gross output</b>	"	27,903	41,785	46,085
Cost of purchases	"	11,992	18,242	21,781
Change during the year, stocks of materials, stores and fuel	"	+ 261	+ 272	+ 696
Payments to other organisations				
for work done on materials given out	"	227	570	545
for transport by road	"	365	489	593
for transport by rail, water, air and Post Office parcel services (d)	"		128	244
<b>Total costs</b>	"	12,323	19,157	22,467
<b>Net output</b>	"	15,580	22,627	23,618
Total employment (including working proprietors) (e)	Thousands	16.4	15.8	13.8
<b>Net output per head</b>	£	948	1,435	1,708

(a) For 1963 and 1968, the analysis relates to returns received from establishments employing 25 or more 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.

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

TABLE 6b

C150.15

Analysis of net output of returns received from United Kingdom establishments employing 11 or more persons, 1970

	Unit	Musical instruments	Miscellaneous manufacturing industries
Enterprises	Number	55	153
Establishments (a)	"	59	154
Sales of goods produced and work done	£'000	12,491	28,082
Services rendered to other organisations (b)	"	198	47
Goods merchanted or factored	"	1,871	2,704
Canteen takings	"	9	30
<b>Total sales and work done</b>	"	14,569	30,864
Change during the year, goods on hand for sale	"	+ 185	+ 64
Change during the year, work in progress	"	+ 250	+ 154
<b>Gross output</b>	"	15,004	31,082
Cost of purchases	"	7,221	14,561
Change during the year, stocks of materials, stores and fuel	"	+ 316	+ 380
Payments to other organisations			
for work done on materials given out	"	141	404
for transport by road	"	81	512
for transport by rail, water, air and Post Office parcel services	"	74	170
<b>Total costs</b>	"	7,200	15,267
<b>Net output</b>	"	7,804	15,814
Total employment (including working proprietors) (c)	Thousands	4.3	9.6
<b>Net output per head</b>	£	1,826	1,656

(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) Average number of persons employed during the year.

TABLE 7

C150.16

Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 11 or more persons, 1970

Accounting year ended	Musical instruments		Miscellaneous manufacturing industries	
	Percentage of total returns received	Percentage of total numbers employed	Percentage of total returns received	Percentage of total numbers employed
	per cent	per cent	per cent	per cent
1970 April (a)	0.0	0.0	2.6	1.2
May	0.0	0.0	3.9	1.4
June	20.3	24.2	9.1	15.4
July	5.1	2.1	3.2	1.6
August	1.7	1.0	5.2	5.3
September	5.1	1.4	3.2	2.1
October	0.0	0.0	3.9	2.6
November	0.0	0.0	2.0	2.7
December	49.2	53.3	39.0	34.5
1971 January	0.0	0.0	8.4	11.6
February	0.0	0.0	1.3	0.5
March (b)	18.6	18.0	18.2	21.1
	100.0	100.0	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 merchandising 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, viewmen 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  
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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