

BOARD OF TRADE

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Report on the Census of Production 1963

73 Jewellery, plate and refining of precious metals

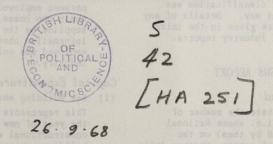
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Report on the Census of Production 1963

73 Jewellery, plate and refining of precious metals

Presented by the Board of Trade to Parliament in pursuance of the Statistics of Trade Act 1947 (10 & 11 Geo. 6 Cha. 39 Sec. 7)



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 1 of the Report on the Census of Production for 1963.)

GENERAL INFORMATION

Changes in the 1963 census

There were few changes resulting from amendments to the Standard Industrial Classification and only minor changes in the scope of certain industry reports compared with 1958. Any such changes are explained in the introductions to the industry reports concerned or by footnotes to the tables.

Industrial Classification

Establishments were classified to industries on the basis of major activity in conformity with the second edition of the Standard Industrial Classification (Consolidated Edition 1963, incorporating Amendment 1). Each industry was basically defined in terms of its principal products, these being of a similar nature or commonly associated in production. 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 did its sales of the principal products of any other industry. ever, where the application of this rule would have resulted in a change of classification between 1958 and 1963, the establishment was reclassified only if the sales of principal products of the newly predominant industry was more than one third greater than the sales of principal products of the previously predominant industry. This modification of the general rule was introduced for 1958 to avoid discontinuities which would result from marginal changes in sales between successive censuses.

The principle of classification by major output was also normally followed in compiling the analysis by sub-divisions of an industry.

In certain industries, classification was dealt with in a different way. Details of any non-standard treatment are given in the introductions to the relevant industry reports.

TERMS USED IN THE CENSUS REPORT

Average number employed

Firms 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 fulltime or part-time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) operatives (see below). Averages could be calculated from figures relating to the last week of each calendar month; figures shown in respect of the average number employed relate to the sum of these averages. Firms were also required to state the number of working proprietors (see below) where appropriate and these are included in total employment figures. Outworkers are excluded.

The figures include persons engaged in 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 persons who worked less than half the normal number of working hours are excluded. For Great Britain, directors working in the business but not in receipt of a definite wage, salary or commission are included under this heading for 1963, but are excluded for 1958. For Northern Ireland, directors of limited companies, other than those paid by fee only, are included for both years. (Directors paid by fee only are not included in any of the employment figures for either year.)

Employees

- (i) Administrative, technical and clerical employees include 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. For Great Britain, but not for Northern Ireland, they include also managing and other directors in receipt of a definite wage, salary or commission.
- (ii) 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, stores, warehouses, shops and canteens; inspectors, viewers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting, etc. are also included, but outworkers (i.e. persons employed by the firm who worked in their own homes, etc. on materials supplied by the firm) are excluded. Information about the numbers of outworkers employed was collected only for the gloves industry.

Capital Expenditure

(i) New building work.

This represents the cost incurred during the year of new building and other new 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 work of a capital nature carried out by firms' own staff, and the cost of any newly constructed buildings purchased. The figures shown include any legal charges, stamp duties, agents' commissions, etc.

Notes - continued on pages iii and iv

73

Jewellery, plate and refining of precious metals

This Report on the Jewellery, Plate and Refining of Precious Metals Industry relates to establishments engaged wholly or mainly in assaying, smelting, refining, etc., gold, silver and platinum, etc., cutting and polishing precious stones; manufacturing ornaments of gold, silver, pewter, or plated with gold, silver, etc.; and in manufacturing jewellery, coins, medals and tableware (including spoons and forks, other than hafted forks). The Royal Mint is included.

This industry corresponds to minimum list heading 396 in the Standard Industrial Classification (Consolidated edition, 1963).

For 1963 repair work on customers' goods, including remounting and mounting loose stones, which was previously taken into account in classifying returns to this industry, was treated as repair work outside the scope of this industry and proper to the distributive trades.

In the jewellery and plate section of this industry, where small firms account for a relatively large proportion of employment and output, a sample of firms employing fewer than twenty-five persons was asked to complete a simplified version of the full census form for 1963; estimates based on the information received from these small firms are given in Table 5(i).

There were no small establishments in this industry in Northern Ireland in 1958 and 1963.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (ii), (iii) and (iv).

LIST OF TABLES

Table No.	Title Tales to gold led bedeath prefit went away and so stoped	Page
1	Industry summary: United Kingdom. Estimates for all firms, 1958 and 1963	73/3
2	Analysis of larger firms by sub-divisions within the industry, 1958 and 1963	73/4
3	Analysis of larger firms by size of enterprise within the industry, 1963	73/5
4	Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom	73/6
5(i)	Estimates of total sales of principal products of the Jewellery and Plate section of this industry, 1958 and 1963	73/7
5(ii)	Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963	73/8
6	Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963	73/1
7	Sales of other than principal products by larger firms in the industry, 1958 and 1963	73/1
8	Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963	DOES NOT APPL
9	Purchases of selected principal products of the industry by larger firms, 1963	DOE: NOT APPL
10	Purchases by larger firms in the industry, 1954 and 1963	73/1
11	Transport costs and employment of larger firms, 1963	73/1
12	Payments for certain services, etc. by larger firms, 1963	73/1
13	Percentage analysis of twelve-month periods covered by returns from larger firms, 1963	73/1
14	Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963	DOE NOT APPL

TABLE 1 Industry summary: United Kingdom Estimates for all firms, 1958 and 1963 (a)

		Unit	1958	1963
Number of enterprises	that average of	No.	885	864
Number of establishments		1	934	922
Gross output		\$,000	155,731(ъ)	414,945
Net output			22,943(b)	31,918
Net output per head		3	866(b)	1,212
1 255 to 1 135 348 369 15	∫ goods produced and work done	£,000	149,207(Ъ)	399,976(c)
Sales and work done	merchanted goods and canteen takings		5,989(Ъ)	12,846
Purchases	materials for processing and packaging, and fuel	gang and and so))130,991(b)	367,415
Putchases	goods for merchanting and canteen purchases		January V	13,144
Payments to other	for work done on materials given out		1,612(b)	2,987
organisations	for transport	•	257(ъ)	189
Stocks and work in progress		ra 196160 1961	Siningana	
Total stocks and work in	schange during year	A 2000 • 300	+ 607(b)	+ 2,831
progress	at end of year	S Morteg	17,798	25,775
Goods on hand for sale	f change during year	70° 000	+ 310(b)	+ 1,725
Goods on hand for safe	at end of year		8,784	10,738
Work in progress	f change during year		+ 225	+ 399
Work in progress	at end of year	YEST SI	3,160	4,306
Materials, stores and fuel	f change during year	De 10 155	+ 72(b)	+ 708
materials, stores and ruer	at end of year	188 • 88	5,854	10,732
	total, including working proprietors	Th.	26.5	26.3
Average number employed	operatives	24.13	21.2	19.3
	other employees (d)	•	5.1	5.8
Wages and salaries	of operatives	£,000	9,019	10,981
mages and sataties	of other employees (d)		3,511	5,444
Employers' contributions to pension schemes, etc. (e)	National Insurance and private	(V) a say	Pass beauty	1,264
Capital expenditure (f)		P Ex	Platopo to P	1 1000 000
Total		none in	Strante log	1,526
New building work			314	372
Land and existing building	s (g)	10000	1000 05010 L	- 109
Plant and machinery (g)			931	1,021
Vehicles (g)		4 18 C * Q	74	242

⁽a) For 1963, estimates for small firms and for firms not making satisfactory returns accounted for about 24 per cent. of the total figures in which they were incorporated. (For 1958 the comparable figure was 25 per cent.) A summary of the detailed returns received is given in Table 2.

⁽b) Revised figures for 1958.

⁽c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).

⁽d) Administrative, technical and clerical employees.

⁽e) Including pensions and gratuities paid other than from pension funds.

⁽f) Excluding expenditure for establishments not yet in production.

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

TABLE 2 Analysis of larger firms by sub-divisions within the industry, 1958 and 1963 Firms employing 25 or more persons: United Kingdom (a)

			Sub-di	visions of	the indus	try (b)		
		Unit	pl	ery and ate)1	ref	s metals ining 02	То	tal
			1958	1963	1958	1963	1958	1963
Number of ente	rprises	No.	153	139	7	8	160	147
Number of esta	blishments		174	166	26	25	200	191
Gross output		£'000	22,470	34,644	116,877	355,109	139,348	389,753
Net output			11,307	15,317	5,993	9,510	17,299	24,829
Net output per	head	3	785	1,086	1,106	1,645	873	1,248
Sales and	goods produced and work done	£,000	20,724	30,228(c)	112,997	346,318(c)	133,721	376,546(c
work done	merchanted goods and canteen takings	н	1,431	3,779	3,825	7,870	5,257	11,649
Sales of chara	cteristic products	"	19,452	28,017	103,463	333,238	(d)	(d)
Index of speci	alisation (e)	Per cent.	94	93	92	96	93	97
Purchases	materials for processing and packaging, and fuel	£,000	10,600	15,261	110,030	336,548	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	351,809
	goods for merchanting and canteen purchases	") (3,303	1	7,681] (10,984
Payments to other	for work done on materials given out	"	520	889	673	1,701	1,193	2,590
organisations	for transport	"	150	116	94	52	244	167
Stocks and wor Goods on	Change during year	"	+ 209	+ 375	- 7	+ 856	+ 202	+ 1,231
hand for sale	at end of year	" "	1,568	3,144	5,004	5,060	6,572	8,204
Work in	Change during year	н	+ 106	+ 261	+ 62	+ 65	+ 168	+ 326
progress	at end of year	"	1,533	2,359	831	1,471	2,364	3,830
Materials,	Change during year	"	+ 106	+ 241	- 88	+ 383	+ 18	+ 625
stores and fuel	at end of year	"	2,660	3,225	1,720	5,570	4,380	8,796
Average	total, including working proprietors	No.	14,402	14,108	5,419	5,781	19,821	19,889
number employed	operatives	н	12,084	11,182	3,912	3,856	15,996	15,038
ang.	other employees (f)	п	2,300	2,798	1,507	1,925	3,807	4,723
Wages and	of operatives	£'000	5,059	6,026	1,739	2,642	6,797	8,668
salaries	of other employees (f)	11	1,632	2,348	1,014	2,177	2,646	4,525
Wages and	operatives	3	419	539	444	685	425	576
salaries per head	other employees (f)	п	710	839	673	1,131	695	958
Insurance (g)	tributions to National	£'000		365		181	does bee	546
Employers' con pension scheme	tributions to private s, etc. (h)	н		197		301	(a) kai	498
Capital expend New building			106	168	129	170	235	338
Land and exi	sting buildings	9 12 m 1/9	dr dolde s	- 123(j)	t the tota	+ 17(j)	38 100da	- 106(j
Plant and	[acquisitions		265	464	443	518	708	983
machinery	disposals		4	18	8	14	12	(4) 32
	[acquisitions	E YOU SO	135	181	34	63	169	244
Vehicles	disposals		103	81	ben leni	21	113	102
	(disposats .about sol	erred se	l nant ted	to bigg sel	tipicia po	a spolaneg	gnibuloni	(3)

For notes to this table - see page 73/6

TABLE 3 Analysis of larger firms by size of enterprise within the industry, 1963

(i) Output, employment, capital expenditure and stocks

Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in the industry (a)	Enter- prises	Estab- lish- ments	Average number employed (a)	Gross output	Net output	Net output per head	Capital expendi- ture (b)	Total value of stocks and work in progress at end of year
	Number	Number	Number	£,000	£'000	£	£,000	\$,000
25-49	54	55	1,856	18,120	2,425	1,307	95	1,586
50-99	53	58	3,678	11,458	3,598	978	129	2,209
100-199	22	31	2,883	12,511	3,729	1,294	157	1,945
200-299	10	13	2,307	4,275	2,267	982	129	1,405
300-749	5	15	2,667	18,377	4,422	1,658	339	5,157
750 and over	3	19	6,498	325,013	8,387	1,291	476	8,528
Total	147	191	19,889	389,753	24,828	1,248	1,325	20,829

(ii) Employees, wages and salaries, and employers' contributions Firms employing 25 or more persons: United Kingdom

Average number	Emple	oyees	Wages and	salaries	Emplo contrib	yers' outions	Wages and per	salarie: head
employed by the enterprise in the industry (a)	Oper- atives	Others (c)	Oper- atives	Others (c)	National Insurance (d)	Private pension schemes, etc. (e)	Oper- atives	Others (c)
Table 571	Number	Number	£'000	£,000	€,000	€,000	le bgline	2)
25-49	1,401	404	841	388	48	22	600	960
50-99	2,870	761	1,492	633	91	31	520	831
100-199	2,336	526	1,226	452	81	24	525	860
200-299	1,765	533	811	439	59	30	460	823
300-749	1,992	675	1,403	596	80	85	705	883
750 and over	4,674	1,824	2,894	2,017	186	306	619	1,106
Total	15,038	4,723	8,668	4,525	546	498	576	958

⁽a) Including working proprietors.

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

⁽c) Administrative, technical and clerical employees.

⁽d) Including both flat rate and graduated contributions.

⁽e) Including pensions and gratuities paid other than from pension funds. These amounted in total to £100,000.

Percentage analysis of employees, by age and sex, all firms, 1963: United Kingdom (a)

Ages	Males	Females	All employees
level 1	Per cent.	Per cent.	Per cent.
Under 18	4	4	8
18 and over	53	39	92
All ages	57	43	100

Source: Ministry of Labour

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1963.

Footnotes to Table 2.

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry. It includes an estimate for small firms not making satisfactory returns, which account for 7 per cent. of the employment shown for 1963 and 10 per cent. for 1958.

	THE REAL		1958	1963
umber	of	firms	708	722

Average number employed:

1,075 Working proprietors 5.845 4,964 Other persons employed

- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5(ii).
- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery and other goods, for providing transport, or for technical or other services rendered).
- (d) Characteristic products relate only to sub-divisions of
- (e) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work
- (f) Administrative, technical and clerical employees.
- (g) Including both flat rate and graduated contributions.
- (h) Including pensions and gratuities paid other than from pension funds.
- (i) Excluding expenditure for establishments not yet in production.
- (j) Acquisitions less disposals.

TABLE 5(i) Estimates of total sales of principal products of the Jewellery and Plate section of this industry, 1958 and 1963 (a)

All firms: United Kingdom

		All fir	ms (b)	Small firm industr	
Greatity Value prizes De	sulsy lighteness; i	1958(d)	1963	1958(d)	1963
Jewellery, gem set or not	A011720 A211,01	£,000	\$,000	£,000	£'000
Of platinum, gold (including go and silver whether or not cover metals	ed with other precious	7,418	12,917	3,509	6,439
Of all other materials (including with precious metals, rolled or silver and imitation fashion and silver and imitation fashion and silver and imitation fashion and silver and	imitation gold and	1,325(e)	4,560	785(e)	1,212
Goldsmiths' and silversmiths' war lace and braid, and knives comple excluding steel knives and watch	te with blades but	the education and a second consistency of the second consistency of th		levetth to bee	
Of gold, platinum, or silver wh with other precious metals	ether or not covered	2,591(f)	4,505	1,143(f)	1,532
Of metals other than gold, plat not covered with precious metal		8,870	10,220	795	485
Diamonds and other precious and s pearls, cut or otherwise worked	emi-precious stones and	1,103	4,128	629	1,287
Stampings, findings and other sem precious metals and other metals products		9,762	3,608	1,586	2,113
Other products (g)			6,857	1	145
Work done on commission, sub-cont	ract work, etc.	1,204	3,110	1,157	2,832
Total		32,273	49,905	9,604	16,046

- (a) Including estimated figures for firms not making satisfactory returns.
- (b) Including sales of principal products of the industry by larger firms but not by small firms, classified to other industries. For a more detailed analysis of sales by larger firms see Table 5(ii).
- (c) Estimates based on a sample of small firms which account for 18 per cent.of the total employment of small firms in the industry for 1963, and 34 per cent. for 1958.
- (d) Revised figures.
- (e) Excluding 'imitation, fashion and costume jewellery' which for 1958 has been included with 'Other products'.
- (f) Excluding 'thread, lace and braid'.
- (g) Including any sales by small firms of goods other than principal products of the industry (but excluding merchanted goods and the value of services rendered to other organisations).

TABLE 5(ii) Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom 1963 Industry sub-Enterdivision Entries Value Quantity Value Quantity prises (a) £'000 Th.fine £'000 Number Th.fine oz.troy 02 Precious metals refined Gold 5.723 71,581 22,781 285,987 Refined in bars, grain, etc. Rolled gold sheet, other sheet, gold leaf, wire, tube, strip and other semi-processed forms 765 615 1,297 7,181 Alloys in sheet, wire, tube, strip 6,458 and other semi-processed forms 782 Th.oz.troy Th.oz. troy Refined in bars, ingot, grain or 16,947 635 powder 400 8,940 Alloys in sheet, wire, tube, strip 148 5,472 and other semi-processed forms Silver 10 26,615 8,957 14,187 6,388 Refined in bars, grain, etc. 2,371 756 244 Fine silver sheet, wire and other 5,350 2,626 semi-processed forms Alloys in sheet, wire, tube, strip and other semi-processed forms 2,181 1,676 10,840 17,984 6,544 5 Palladium, iridium, rhodium, osmium and ruthenium, and alloys thereof, 3,109 395 4,507 5 279 other than platinum alloys Other refinery products including 397 (b) other precious metals 105,021 336,309 Total precious metals refined Jewellery, gem set or not 01 1.0 14 14 Of platinum 94 1,710 86.4 Of gold (including gold and platinum combined) 118 2,392 3,184 43 45 89 235 92.2 211 322 Of silver, whether or not covered 53.5 26 26 with other precious metals Of base metals covered with 428 15 15 precious metals 3,214 Of all other materials (including imitation, fashion and costume 2,485 24 24 jewellery) not specified above 344 Unclassified

TABLE 5(ii) (continued)

Industry	east Ba	195	8		1963		
sub- division (a)	delig wastran ditumb	Quantity	Value	Quantity	Value	Enter- prises	Entries
zodeski 1	6,000 Europe	Th.oz.troy	£'000	Th.oz.troy	£'000	Number	Number
01	Goldsmiths' and silversmiths' wares (including thread, lace and braid, but excluding watch cases)	alty was		er skisse		todille Ed	
91	Of gold or platinum (e.g. cigarette { cases, compacts, pencils)	0.7	11(c) 251	}	266	12	12
28	Of silver, whether or not covered with other precious metals			ing concent		300	
11	Spoons and forks	208	144 64	184	215 283	} 21	21
	Other (e.g. cigarette cases, compacts, pencils)	266	260(d) 558	402	618 212	} 23	26
	Of metals other than gold, platinum or silver, whether or not covered with precious metals	5.6		50 30dto (0.55)		89	
	Spoons and forks	Th.doz.		Th.doz.			
	Plated with silver	1,187	1,467 425	891	1,482 374	} 45	46
	Plated with base metals	1,257	640	1,554	635	18	19
	Stainless steel {	529	523 55] 1,888	1,904	37	38
	Other {	1,091	528 80	1,544	680 174	} 26	27
	Knives, complete with blades, except steel knives	489	780 314	364	532 115	} 27	27
	Table hollow-ware	s, bisted her		addinovilues		A DESCRIP	
	Of silver plate on nickel silver	galr	1,060	1900 31.00	1,136	22	23
	Of other metals (e)	Table 1	339	31 37005	515	11	12
	Other goods	neiror recents	diduran-1	request turo		P and the	
	Of silver plate on nickel silver	nt 1.000	417	Section 1.12	652	11	11
	Of other metals (e)		569		1,183	18	19
	Unclassified		824(f)		1,414	8	8
01	Diamonds and other precious and semi- precious stones and pearls, cut or otherwise worked		448		2,767	8	. 8
01	Stampings, findings and other semi- processed goods	Th.oz.troy		Th.oz.troy			
	Of precious metals		223	132	434 66	} 5	5
	Of other metals	Th.doz.		Th.doz.			
	Blanks for spoons or forks	2,114	615	{ 777 	276 389	8	9
	Other		275		292	7	7
01	Coinage		2,560(g)		3,773	•	
	Total jewellery and plate		20,344		29,945		

Continued on next page

TABLE 5(ii) (continued)

Industry			19	58		1963	Y Y	
sub- division (a)			Quantity	Value	Quantity	Value	Enter- prises	Entries
15,101,01	odmak 000'2 was amaki	000-2	energe sentati	£'000	CHANGE IN	£'000	Number	Number
	Other products			708	071867071E	2,063	26	29
	Waste products		Th.oz.troy		Th.oz.troy		9 100	
B }	Of precious metals	(5)11 {	321	217 116	250	375 227	} 47	49
	Other (including concentra metallic residues, etc.)	tes,	5.1.0	329	oo, wa zanz	128	35	36
us I	Work done on commission, subwork, etc.	-contract	802	508	s produc	545	9	11
35	Total		882	127,244(h)	edgaragia fallba	369,591	3	
	Sales in other indus (see Table 6)	tries	1,302,1030	3,654	ing made t dan som medi minish	5,833	30	
	Principal products of industry sold by establishments in the		781.2 (C)	123,590(h)	30220	363,758	147	156(i)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are the total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (b) Not recorded separately for 1963, included in 'Other products'.
- (c) Excluding 'gold thread, lace and braid' for 1958.
- (d) Excluding 'silver thread, lace and braid' for 1958.
- (e) Excluding 'pewterware' for 1958.
- (f) Including 'gold and silver thread, lace and braid and pewterware' for 1958.
- (g) So far as recorded separately.
- (h) Revised figure. Repair work including remounting and mounting of loose stones included in this table in the 1958 report is now shown in Table 7.
- (i) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments in Table 2 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

	19	58			1963	
000 2 000 a	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
111 678	Th.doz.	£'000	Th.doz.	€,000	Number	10101.1103
Goldsmiths' and silversmiths' wares (including thread, lace and braid but excluding watch cases)	partly ve		thereof		a bes al	Note the state of
Of metals other than gold, platinum or silver, whether or not covered with precious metals	lest, etc.		a supprise		na satua ntanatan shanah a	Republicat mannial Republication of Loop
Spoons and forks	0.01301		(x) emplis		dan na h	explicate vacificat
Plated with silver	149	246	and gailes	85	12	69
Plated with base metals	73.5	74	83.6	60	7	69
Stainless steel	97.1	136	568	483	13	69
Other 65 (4) 088 85 (276	192 24	703	386	10	69, 74
Knives, complete with blades, except steel knives	9.0	31	20.6	66	7	69
Of gold, platinum or silver and goldsmiths' and silversmiths' wares of other metals not elsewhere specified	 Th.oz.troy	88	Thozitroy	89	labios sav. as savunta	74, 82
Silver and manufactures of silver {	5,558	1,862 174	7,107	2,985 29	} 8	40, 74
Other products		826	This 800 S	1,650	7	40, 43, 69, 12
Total		3,654		5,833		1,225

⁽a) The references given are to the list of industries at the back of this report.

TABLE 7 Sales of other than principal products by larger firms in the industry, 1958 and 1963

Firms employing 25 or more persons: United Kingdom

8801 8801	1958	1963
September 1 Septem	Value	Value
(at basahon)	£,000	£'000
Cutlery	177	676
Non-ferrous metals and manufactures thereof	3,322	} 2,453
Manufactures of miscellaneous metals	111	3 2,400
Chemical manufactures and other products	6,152	8,646
Repair work on customers' goods, including remounting and mounting of loose stones	369	639
Services rendered to other organisations (a)	(h) 230	374
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	5,184	11,533
Canteen takings	73	116
Total	15,389 ^(b)	24,437

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

TABLE 8 Production of certain principal products of the industry by larger firms, including production by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

TABLE 9 Purchases of selected principal products of the industry by larger firms, 1963

This table is not applicable to this industry.

TABLE 10 Purchases by larger firms in the industry, 1954 and 1963

Firms employing 25 or more persons: United Kingdom

quantity Quantity Cost	1954		1963	
000'% 000'%	Quantity	Cost	Quantity	Cost
aterials for processing		£,000	byen	£,000
Precious metal concentrates	ameryly box	(a)	ortens, pro	7,606
Gold	an traded	0 (0000 14	not a security to	
Unrefined in dust and amalgam and in partly refined forms	w betsoo	som enli	post rione	24,174
CLASSE 105	un regen s	36,130	i mermulan	266,252
Refined in bars, grain, etc.	Cordii ba	00,100	Gegag to	Ani 193 mm
Rolled gold sheet, other sheet, gold leaf, wire, tube, strip and other semi-processed forms	s rebicio	0746792	anches (Louise	1,622
Alloys in sheet, wire, tube, strip and other semi-processed forms		(b)	e) vii.0, m	1,468
Platinum (including commercial platinum)				15,694
Bars, ingot, grain or powder		(a) {		15,084
Alloys in sheet, wire, tube, strip and other semi-processed forms	}	(4)	• •	218
Silver Unrefined	beor of se	o sol sing	a your has	5,204
	100000000000000000000000000000000000000			10,051
Refined in bars, grain, etc.	En avelors	10 105	John Louis	25,031
Fine silver sheet, wire and other semi-processed forms	· · ·	10,165		1,079
Alloys in sheet, wire, tube, strip and other semi-processed forms	}			585
Palladium iridium, rhodium, osmium and ruthenium, and alloys thereof, other than platinum alloys	(or certa)	(b)	esc. by	2,532
Light metals and non-ferrous metals in all forms except finished parts, wire and scrap (c)	Th.tons	NOTE BOOKS	Th.tons	
Brass and other copper alloys (including cupro-nickel, but excluding all other nickel alloys)	1.7	476 118	} 2.5	1,223
Nickel silver	0.9	288 32	0.5	205
Nickel and nickel alloys (excluding nickel silver and				
cupro-nickel)	0.6	277	1.2	729
Copper (excluding blister) (d)	1.7	460	4.0	95:
Stampings, findings and other semi-processed goods not elsewhere specified	the to an	phipped be	init on ros	BUSHO IX BORNAD IST
Of precious metals	1		edas papios	14
Of other metals	abatone vi	spiliners	00 250 10	
seasting to later and lateral firms the total quantities	al to say	484 {	to the ris	34:
Blanks for knives	(ac id as a	al balato	orracity gr	36
Blanks for spoons and forks				23
Other Pastures telephone telephone) and care	1 100		2,78
Diamonds, uncut		1,163	•	
Other precious and semi-precious stones and pearls, unset		342	acidores applicants	1,05
Imitation stones, unset		427		24
Fitted cases for jewellery, cutlery, etc.	or the p	170	C 170	19
	11.		Th.gal.	
Lubricating oils and greases		(b) {	10.1	
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought				
as replacement		(b)		22
All other materials for processing		22,081		5,07

Continued on next page

⁽b) Revised figure. 'Repair work on customers' goods, including remounting and mounting of loose stones' was included in the principal products table of the 1958 report.

⁽c) Excluding amounts charged for services rendered to other organisations.

sobject balls trace	1954		1963	
	Quantity	Cost	Quantity	Cost
Packaging materials		€,000		£,000
Paper and board			RINE SOUTH	
Boxes, cartons, packing cases, and drums and canisters (with or without metal ends) of paper, cardboard and fibreboard		115	Stal conces	243
Wrapping paper (including paper coated with plastics and any laminates incorporating paper but not metal) moulded pulp units, labels and other packaging materials of paper, cardboard and fibreboard (except multiwall sacks)	}	94 {	na . sind pa	156
All other packaging materials		l		99
Fuel and electricity (e)	Th.tons		Th.tons	
Coal	12.0	52	8.5	64
Coke (including screenings) and manufactured fuel	7.4	49 {	2.5	25 7
Derv fuel and motor spirit for use in road vehicles	Th.gal.	26 4	Th.gal. 172	76 15
Other liquid fuels (including creosote/pitch mixtures, etc., and liquefied petroleum gases)	1,244	59	5,497	176
	Th. therms	o Last outs	Th.therms	Pano sa.
Gas	2,534	140 20	2,711	172 26
	Th.kWh	nea suite	Th.kWh	autiset (ell
Electricity	50,175	277 {	56,592	390 54
	(5)	quitos bas	grin , name	251 900
Total cost of materials and fuel	gribuloui)	73,452	es seites be	351,809
Goods purchased for merchanting Canteen purchases	V M X O I I I	andiada	lie priba	10,817
Total cost of purchases	Contraction of the Contraction o	3383 E. C	ISISIA BA	362,793

⁽a) Owing to the risk of disclosure of information relating to individual firms separate details cannot be given and are included with 'All other materials for processing'.

TABLE 11 Transport costs and employment of larger firms, 1963

Firms employing 25 or more persons: United Kingdom

and the second s	Unit	1963
Average number employed mainly on transport	No.	129
Transport costs		10000000
Wages and salaries	£,000	101
Derv fuel and motor spirit	•	91
Payments to other organisations for transport	•	167
Costs of operating road goods vehicles		
Insurance		8
Vehicle licences		5
Depreciation	•	36
Payments to other organisations for repairs and maintenance	100	21
Total	Series and	429

TABLE 12 Payments for certain services, etc. by larger firms, 1963 (a)

Firms employing 25 or more persons: United Kingdom

Save below valued of the vector and	Amounts payable
Repairs and maintenance to	£'000
Buildings	133
Road goods vehicles	21
Plant, machinery, and other capital equipment	467
Insurance, licensing and depreciation of road goods vehicles (b)	49
Rates, excluding water rates	319
Hire of plant and machinery	32
Postage, telephone, telegrams and cables	260
Total	1,281

⁽a) No deduction is made for these payments to arrive at the figures of net output given in this report.

⁽b) Not recorded separately for 1954.

⁽c) 'Wire' was not excluded in 1954.

⁽d) 'Blister' was not specifically excluded in 1954.

⁽e) Owing to the risk of disclosure of information relating to individual firms the total quantities of electricity generated in firms' own establishments in 1954 and 1963 cannot be given.

⁽b) For details see Table 11.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger firms, 1963

Firms employing 25 or more persons:
United Kingdom

Year ended	Percentage of total number employed	Year ended	Percentage of total number employed
1963	Per cent.	1963 (contd.)	Per cent.
April (a)	2.3	November	0.0
May	0.6	December	50.0
June	0.7		f operating road
July	1.4	1964	asonsell's ligances
August	0.8	January	4.8
September	0.4	February	1.8
October	0.5	March	37.0
	ond Liquelyth p	Total	100

⁽a) Including returns made for twelve-month periods ended 1st to 5th April, 1964.

TABLE 14 Sales of all parts of machinery and plant by larger firms, including sales by establishments classified to other industries, 1958 and 1963

This table is not applicable to this industry.

Capital Expenditure (continued)

(ii) Land and existing buildings.

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

(iii) Plant, machinery and vehicles.

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand, and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc. which firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortisation 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 in this report for both 1958 and 1963.

Characteristic Products

The characteristic products of a sub-division are those in terms of which the sub-division is defined. They are products commonly associated in production and are usually similar in nature or manner of production. In most cases the characteristic products of each sub-division are indicated in Table 5 of the industry reports. For those industries for which an analysis by sub-divisions has been made, Table 2 shows the total sales of such characteristic products for each sub-division. The totals include, besides the products which define the sub-division, other items of output assumed to be closely related to them, e.g. waste products and work done.

Enterprise

The term enterprise is used in this report to mean one or more firms under common ownership or control. An enterprise normally consists either of a single firm, or of a parent company together with its subsidiary companies.

Entries

The number of entries shown in Tables 5, 6 and 8 against a particular output or production heading is the number of returns on which figures were recorded for that item.

Establishment

The census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but firms were asked to exclude from all sections of their returns particulars relating to any department not engaged in production for which they kept a separate set of accounts. Where separate accounts were not kept, they were asked to include merchanting or factoring, canteens operated by them and other

ancillary activities such as bottling, packing and the manufacture of containers for packing their own products, whether or not these activities are carried on at the same address as the works. Building and engineering maintenance departments and selling and transport departments were treated similarly.

Gross Output

The gross output of an industry is the aggregate value of goods made and other work done during the year by the establishments classified to the industry. It is derived by subtracting from the value of sales and work done, the value of stocks of goods on hand for sale and work in progress at the beginning of the year and adding the value at the end of the year.

Larger Firms

These are firms in which twenty-five or more persons were employed on the average during the year.

Net Output

The net output of an industry represents the value added to materials by the process of production. It includes the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, insurance, pensions, hire of plant and machinery, payments for repairs and maintenance, costs of operating road vehicles, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output. Net output has been obtained by deducting from the gross output the cost of purchases adjusted for stock changes, payments for work given out to other firms, and payments for transport.

Normally any customs or excise duty on materials purchased is included in the cost of materials. Similarly, finished goods sold have been valued as they were sold, duty paid or duty free. The amounts of duty, subsidies, allowances and levies receivable or payable, where of substantial importance in the industry, were required to be stated separately, and these items were taken into account when calculating net output.

Net output per person employed

The figures for 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.

Principal Products

The principal products of an industry are those in terms of which the industry is defined. They are products commonly associated in production, and are usually similar in nature or manner of production.

Production

This means the total quantity of a product made during the year, whether sold in the year, added to stock, transferred to another department of the same firm, or used in the manufacture of other products within the business covered by the return. It includes goods produced from materials supplied by other firms.

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 full cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; 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.

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 firms' own separate transport organisations, for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at their 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 delivered cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the firm not covered by the same return are included at the estimated selling value recorded by the other department.

Sales are in respect of goods made by the business covered by the return, goods made for it by outworkers or by other firms 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 firm's capital asset account. Goods sold without being subjected to any manufacturing process (merchanted or factored) and canteen takings are included as in 1958.

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, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value. For work done on commission or for the trade the value shown is

the net amount charged.

Where goods produced in one department were transferred to another department of the same firm not covered by the return, these transfers were treated as sales by the producing department 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. Estimations of a similar kind were also sometimes necessary in valuing transfers between different firms belonging to the same enterprise. To the extent that the sales of finished products of one establishment may constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

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 departments of the same firm not covered by the return.

These are firms in which fewer than twenty-five persons were employed on the average during the

Stocks and Work in Progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the beginning and end of the year of return, including any stocks of goods held for merchanting or factoring. The values include duty in the case of dutiable goods held out of bond. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments

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 payments to other firms, and to any separate transport organisation of the same firm, 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, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and Salaries

These are the 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; in Northern Ireland this exclusion extends also to payments to directors of limited companies. 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 Insurance and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

Symbols used

The following symbols are used throughout the

- .. Not available
- Nil or negligible (less than half the final digit shown)
- Figures cannot be shown owing to the risk of disclosing information about individual enterprises.

Rounding of Figures

The 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

List of Industry Reports, etc

Part No. and title

- 1 Introductory Notes
- 2 Coal Mining
- 3 Stone and Slate Quarrying and Mining 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying 6 Salt and Miscellaneous Non-metalliferous
- Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery 14 Fruit and Vegetable Products 15 Animal and Poultry Foods
- 16 Margarine
- 17 Starch and Miscellaneous Foods
- 18 Brewing and Malting
 19 Spirit Distilling and Compounding
- 20 Soft Drinks, British Wines, Cider and Perry
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining
- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers and Chemicals for Pest Control 27 General Chemicals
- 28 Pharmaceutical Preparations
- 29 Toilet Preparations
- 30 Explosives and Fireworks
- 31 Paint and Printing Ink
- 32 Vegetable and Animal Oils and Fats
- 33 Soap, Detergents, Candles and Glycerine 34 Synthetic Resins and Plastics Materials
- 35 Polishes
- 36 Gelatine, Adhesives, etc. 37 Iron and Steel (General) 38 Steel Tubes

- 39 Iron Castings, etc. 40 Non-ferrous Metals
- 41 Agricultural Machinery (except Tractors)
- 42 Metal-working Machine Tools
- 43 Engineers' Small Tools and Gauges
- 44 Industrial Engines
- 45 Textile Machinery and Accessories
- 46 Contractors' Plant and Quarrying Machinery 47 Mechanical Handling Equipment
- 48 Office Machinery
- 49 Miscellaneous (Non-electrical) Machinery
 50 Industrial Plant and Steelwork
 51 Ordnance and Small Arms

- 52 General Mechanical Engineering
- 53 Scientific, Surgical and Photographic Instruments, etc.
- 54 Watches and Clocks
- 55 Electrical Machinery
- 56 Insulated Wires and Cables
- 57 Telegraph and Telephone Apparatus
 58 Radio and Other Electronic Apparatus
 59 Domestic Electrical Appliances
- 60 Miscellaneous Electrical Goods
- 61 Shipbuilding and Marine Engineering
- 62 Motor Vehicle Manufacturing
- 63 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 64 Aircraft Manufacturing and Repairing 65 Locomotives and Railway Track Equipment

- 66 Railway Carriages and Wagons and Trams 67 Perambulators, Hand-trucks, etc.
- 68 Tools and Implements

Part No. and title

- 69 Cutlery
- 70 Bolts, Nuts, Screws, Rivets, etc.
- 71 Wire and Wire Manufactures 72 Cans and Metal Boxes
- 73 Jewellery, Plate and Refining of Precious
- 74 Miscellaneous Metal Manufactures
- 75 Production of Man-made Fibres
- 76 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 77 Weaving of Cotton, Linen and Man-made Fibres
- 78 Woollen and Worsted
- 79 lute
- 80 Rope, Twine and Net
- 81 Hosiery and Other Knitted Goods
- 82 Lace
- 83 Carpets
- 84 Narrow Fabrics
- 85 Household Textiles and Handkerchiefs
- 86 Canvas Goods and Sacks
- 87 Textile Finishing
- 88 Asbestos
- 89 Miscellaneous Textile Industries
- 90 Leather (Tanning and Dressing) and Fellmongery 91 Leather Goods
- 92 Fur
- 93 Weatherproof Outerwear
- 94 Men's and Boys' Tailored Outerwear 95 Women's and Girls' Tailored Outerwear
- 96 Overalls and Men's Shirts, Underwear, etc.
- 97 Dresses, Lingerie, Infants' Wear, etc.
- 98 Hats, Caps and Millinery
- 99 Corsets and Miscellaneous Dress Industries
- 100 Gloves 101 Footwear
- 102 Bricks, Fireclay and Refractory Goods
- 103 Pottery
- 104 Glass 105 Cement
- 106 Abrasives
- 107 Miscellaneous Building Materials, etc.
- 108 Timber
- 109 Furniture and Upholstery 110 Bedding and Soft Furnishings
- 111 Shop and Office Fitting 112 Wooden Containers and Baskets
- 113 Miscellaneous Wood and Cork Manufactures
- 114 Paper and Board
- 115 Cardboard Boxes, Cartons and Fibre-board Packing Cases
- 117 Printing and Publishing of Newspapers and Periodicals

116 Miscellaneous Manufactures of Paper and Board

- 118 General Printing, Publishing, Bookbinding, Engraving, etc.
- 120 Linoleum, Leathercloth, etc.
- 121 Brushes and Brooms
- 122 Toys, Games and Sports Equipment 123 Miscellaneous Stationers' Goods
- 124 Plastics Moulding and Fabricating 125 Miscellaneous Manufacturing Industries
- 126 Construction
- 128 Electricity
- 129 Water Supply 130 Index of Products
- 131 Summary Volume
- 132 Summary Volume
- 133 Summary Volume

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