

[HA 251]

BOARD OF TRADE

THE REPORT on the CENSUS OF PRODUCTION FOR 1951

Volume 5

Trade K

PRECIOUS METALS REFINING

POLITICAL W CHOMIC SCIEN

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

LONDON: HER MAJESTY'S STATIONERY OFFICE

1955

PRICE 1s 6d NET

TOT	OF	TADI	FC
121	UF	TABL	E9

片 251]	LIST OF TRADED	
Table No.	Title	Page
1	Summary: Larger establishments	5/K/2
2	Summary: Small firms	5/K/3
3	Estimated average employment: All firms	5/K/3
4	Analysis by size, 1951: Larger establishments in the United Kingdom	5/K/3
5	Analysis by standard region, 1951: Larger establishments in the United Kingdom	5/K/4
6	Analysis according to specialisation within the trade, 1951: Larger establishments in the United Kingdom	5/K/4
7	Total make of intermediate products: Larger establishments	5/K/4
8 or 8(i)	Sales of the principal products of the trade, including sales of these products by establishments classified to other trades: Larger establishments	5/K/ 5
8(ii)	Total sales by small firms in Great Britain	*
9	Sales of principal products of the trade by establishments classified to other trades: Larger establishments	5/K/6
10	Sales in the trade of other than principal products: Larger establishments	5/K/6
11	Production, exports and imports of certain principal products	5/K/6
12	Usage of certain specified purchased materials, 1951: Larger establishments in the United Kingdom	5/K/7
13	Employment in September: Larger establishments	5/K/7
14	Average employment: Larger establishments	5/K/8
15	Shift working, 1951: Larger establishments in Great Britain	5/K/9
16	Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments	5/K/9
17	Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work: Larger establishments	5/K/10
<u>Co</u>	untry tables, 1951	
18	Summary: Larger establishments	5/K/10
19	Summary: Small firms in Great Britain	5/K/10
20 or 20(i)	Sales in the trade: Larger establishments	5/K/11
20(ii)	Sales in the trade: Small firms	*
21	Stocks of product's on hand for sale and work in progress, and stocks of materials and fuel; Larger establishments	5/K/12
22	Employment in September: Larger establishments	5/K/12
23 or 23(i)	Average employment: Larger establishments	5/K/12
23(ii)	Average employment: Small firms	*
24	Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments	5/K/12
25	Plant, machinery and vehicles - acquisitions and disposals, and cupital expenditure on new building work: Larger establishments	5/K/12
26	Payments for transport services for finished goods sold and materials and fuel	

* Not applicable to this trade

purchased: Larger establishments

THIS REPORT on the Precious Metals Refining Trade relates to establishments engaged wholly or mainly in the smelting, refining, etc. of gold, silver, platinum and other precious metals. Those whose chief business is the production of finished goods of precious metals are included in the reports on the Jewellery and Plate Trade (Volume 5, Trade J) and the Watch and Clock Trade (Volume 5, Trade I).

This trade together with the Jewellery and Plate Trade corresponds to minimum list heading 102 in the Standard Industrial Classification.

Establishments engaged solely in the refining of precious metals were not covered by the 1937 Inquiry: Table I therefore gives, as well as the full totals for 1935, figures for that year relating to the sections of the trade included in the 1937 Inquiry.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

(90597/1)

5/K/12

PRECIOUS METALS REFINING TRADE

There were no larger establishments in Northern Ireland in the register for this trade.

PRECISION INSTRUMENTS, JEWELLERY, ETC. PRECIOUS METALS REFINING TRADE

Summary

Larger establishments (a)

TABLE 1

	Great Britain								
	Al	l sections	of the trad	Sections trade co by the Inqui	All Sections of the trade				
	1951	1950	1949	1948(b)	1937	1935	1935		
	£.000	£.000	£.000	£.000	£.000	£,000	000 * 2		
Gross output (production) (c)	62.246	74.293	52,969	34.422	23,602	29,661	31,182		
Cost of materials and fuel used (d)	54.330	69,815	48,409	30,803	22.655	28,961	30,129		
Payment for work done on materials given out Transport payments (e)	27 35	51 	48 	8	5	3	26		
Net output	7.854	4.427	4,513	3,612	942	697	1,027		
Wages and salaries of persons employed	2,522 No.	2.078 No.	1,883 N∘.	1,758 No.	 No.	 No .	No .		
Average number of persons employed (f)	5,696 £	5.331 £	4,861 £	4.631 £	2.327 £	2.057 £	2.367 £		
Net output per person employed (f)	1.379	830	928	780	405	339	434		
Stocks at end of year	£,000	£'000	£,000	£,000	£,000	£,000	£,000		
Products on hand for sale and work in progress Materials and fuel	7.259 2.477 No.	6.299 2.739 No.	7.015 2.397 No.	5.346 2.214 No.	 No .	 No .) No.		
Number of establishments	29	27	27	31			23		

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£.000	£,000	£.000	£°000	£,000	£.000
Output of firms in this trade (g)							
Principal products (h) Other output (i)	52,300 9,769	} 75.031	51,282 {	28.331 5.338	23.489 113	29,611 50	31.118 64
Changes in stocks and work in progress (j)	+ 177	- 715	+ 1.700	+ 755			
	62.246	74,316	52,982	34,424		29.661	31,182
Less payment for transport outwards (e)		22	13	2	23.602	25.001	31,102
Gross output (production)	62.246	74.293	52,969	34,422	23,602	29,661	31,182
Materials and fuel used by firms in this trade							
Purchases Changes in stocks (j)	54.796 - 465	70.157 - 342	48,623 - 214	30,585 + 218	22.655	28,961	30,129
Materials and fuel used	54,330	69,815	48,409	30,803	22,655	28,961	30,129

(a) For small firms' summary see Table 2.

 (b) Corrected figures due to an amended return.
 (c) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded. (d) Amounts paid for delivery services are excluded for 1951 but included for other years.

(e) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(f) Excluding outworkers but including working proprietors. For the total number of persons employed in this trade see Table 3.

(g) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).

(h) For details for 1951 and 1948 see Table 8.
(i) For details for 1951 and 1948 see Table 10.
(j) For details for 1951 see Table 21.

(90597/1)

Number of returns

Average number of persons employed (b)

Males Females

Total

(a) Firms employing on the average ten or fewer persons. (b) Including working proprietors.

TABLE 3

As returned by firms

Employing on the average more than ten persons Employing on the average ten or fewer persons

Estimated average employment in firms not making satisfactory returns

Average employment in all firms

(a) Including working proprietors.
(b) See Tables 13 (footnote (f)) and 14.
(c) See Table 2.

Larger establishments in Great Britain

TABLE 4

Average	Support Stranger				and the second		Remuneration			
number employed	Establish- ments	Gross output	Net output	Persons employed	Operatives	Other employees (a)	Total	Net output per person employed		
	No.	£'000	£'000	No.	£'000	£'000	£'000	£		
11 - 24	5	1,184	184	94	23	21	44	1,963		
25 - 49	4	58 2	102	136	27	27	54	7 50		
50 - 99	7	5,395	693	531	121	101	222	1.306		
100 - 199	4	8,932	1,078	56 0	142	133	27 5	1.924		
200 - 999	9	46,154	5,796	4,375	1.232	695	1,927	1,324		
Total	29	62,246	7,854	5.696	1, 545	977	2, 522	1, 324		

(a) Administrative, technical and clerical employees.

(90597/1)

TABLE 2

Summary

Small firms (a)

	Great 1	Britain	
1951	1950	1949	1948
15	16	17	18
77 22	80 23	81 24	85 22
99	103	105	107

Estimated average employment (a)

All firms

				Number
		Great Br	itain	
	1951	1950	1949	1948
	and a spend	and the second second		and the second
s (b) (c)	5,696 99	5,331 103	4,861 105	4,631
g	5,795	5,434	4,966	4,738
		-	-	-
	5,795	5,434	4,966	4,738

Analysis by size, 1951

PRECISION INSTRUMENTS, JEWELLERY, ETC.

Analysis by standard region, 1951

Larger establishments in Great Britain

TABLE 5

			Net or	utput	t Remuneration			1	Net output	
Region	Estab- lish- ments	Gross output	Value	Percent- age of total	age of employed O		Operatives Other employees Tota (a)		per person employed	
England	No.	£.000	£,000		No.	£.000	£.000	£,000	£	
East and West Ridings; Southern; and North Western	8	6,900	837	10.7	621	168	104	27 2	1,347	
London and South Eastern	13	48,266	6,154	78.3	4,388	1,222	7 53	1,975	1,402	
Midland	8	7,081	863	11.0	687	155	119	27 4	1,256	
Northern; North Midland; Eastern; and South Western	-	-	-		-	-	-	-	-	
Total England	29	62,246	7,854	100.0	5,696	1,545	977	2,522	1,379	
ales	-	- 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940	-	-	-	-	-	-	-	
Scotland	-	-	-	-	-	-	-	-	-	
Great Britain	29	62,246	7,854	100.0	5,696	1,545	977	2, 522	1,379	

(a) Administrative, technical and clerical employees.

TABLE 6 - Analysis according to specialisation within the trade, 1951 Larger establishments in Great Britain

No specialisation within this trade was distinguished.

Total make of intermediate products

Larger establishments in Great Britain

Returne	d in this	trade	Returne	ed in all	trades
195	1	1948	195	1	1948
Quantity	Entries	Quantity	Quantity	Entries	Quantity
Th.ozs.	No.	Th.ozs.	Th.ozs.	No.	Th.ozs.
troy		troy	troy	1	troy
3,982.3	8	3,315.6	3,982.3	8	3,315.6
73.9		646.3	73.9		646.3
229 6		236 4	338.6	-	236.4
43,797.9		(a)	46.045.2	10	31,007.7
10,339.5	••	(a)	10,339.5		(a)
	195 Quantity Th.ozs. troy 3,982.3 73.9 338.6 43,797.9	1951 Quantity Entries Th.ozs. No. troy 3,982.3 73.9 338.6 43,797.9	Quantity Entries Quantity Th.ozs. troy No. Th.ozs. troy 3,982.3 8 3,315.6 73.9 646.3 338.6 236.4 43,797.9 (a)	Ight Ight	1951 1948 1951 Quantity Entries Quantity Quantity Entries Th.ozs. troy 3.982.3 No. Th.ozs. troy 3.315.6 Th.ozs. 3.982.3 No. Th.ozs. troy 3.982.3 No. 3.982.3 8 3.315.6 3.982.3 8 73.9 646.3 73.9 338.6 236.4 338.6 43.797.9 (a) 46.045.2 10

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

TABLE 8

Partly refined, in bars, etc.

1951 1948 Quantity Value Entries Quantity Value Th.ozs. £'000 No. Th.ozs. £'000 troy troy Refined, in bars, etc. 1,167.6 14,730 7 1,001.0 8,856 74.0 923 44.9 390 .. Manufactures of gold not specified above Mill.leaves Gold leaf 14.7 124(a) Th.ozs. 302.3 3,211 8 troy 571.0 Gold sheet 3.047(b) Gold fuse wire (b) 570 ... • • Other gold wire (b) 40.8 299 •• 543.6 2.224(a)311.4 2.747 Other (c) 8 648 •• Refined, in grain, ingot, bar or powder 219.6 6,876 .. Other sorts, including alloys and manufactures, 240.0 4.857 (d) not elsewhere specified (c) 112.7 3.379 6 Refined 22,967.4 7.286 9 11,745.6 2,341 Manufactures of silver Fine silver sheet 2,155.9 604 5 3,092.5 572(b) Fine silver wire 395.0 150 5 Alloyed silver, including solders 8,611.8 1,880 9 11,304.1 2.326 169 881.9 ... 237 Other manufactures of silver (c) 7 608 • • 304.3 3,867(Ь) 6 224.6 1,808 1,586.1 1,061 .. 203 .. 9,471.1 1,860(d) 10,237.2 2.558 •• 17 . . 116.2 332 7 173 .. Th. tons Th. tons 1.1 228 0.4 10 9 58 .. 29 Refining of silver 356 83 ... 48 125 9 Total 53,110 28,762 .. Sales in other trades (see Table 9) 810 431 •• Principal products of this trade sold by 15 establishments in the trade 52,300 28,331

Gold Platinum Silver Palladium, iridium, rhodium, osmium and ruthenium, and alloys thereof other than platinum alloys Rolled gold Silver, partly refined Other precious metals Concentrates, metallic residues, wastes, etc. Work done for the trade or on commission (e) Refining of gold Refining of other precious metals Other

(a) Gold leaf other than in leaves is included in the figures shown for other manufactures of gold (except gold sheet). (b) So far as recorded separately.

(c) Excluding plate, jewellery, watches, etc., for which see the Jewellery and Plate Trade (Volume 5, Trade J) and the Watch and Clock Trade (Volume 5, Trade I). (d) Partly refined platinum is included in the figures shown for 'Other precious metals'.

(e) Amount charged.

(90597/1)

(90597/1)

TABLE 7

PRECIOUS METALS REFINING

Sales of the principal products of the trade, including sales of these products by establishments classified to other trades Larger establishments in Great Britain

PRECISION INSTRUMENTS, JEWELLERY, ETC.

Sales of principal products of the trade by establishments classified to other trades

Larger establishments in Great Britain

T	AB	LE	9	

	1951			1948		
	Quentity	Value	Entries	Quantity	Value	
	Th. ozs. troy.	£,000	No.	Th. ozs. troy.	£,000	
Silver, refined	2.247.3	773	{	1,857.3	420(a) 11	
Concentrates, metallic, residues, wastes, etc.		37		-	•	
Total	-	810			431	

(a) Including manufactures of silver.

Sales in the trade of other than principal products

Larger establishments in Great Britain

TABLE 10

	19	51	1948		
	Quantity	Value	Quantity	Value	
	Th. tons	£* 000	Th. tons	£'000	
Copper and manufactures thereof	2.4	664 554	1.5	275	
Brass and other copper alloys (including nickel silver, but excluding other nickel alloys) and manufactures thereof	{ 7.4 	2.185	} 4.1	514	
ickel and nickel alloys (other than nickel silver) and manufactures thereof		-	0.8	178	
ther non-ferrous metals and manufactures thereof		554	••	66	
hemical manufactures		3,352	••	1,269	
ther goods		2,380	••	3,015	
ork done (a)		63		22	
Total		9,769		5,338	

(a) Amount charged.

Production, exports and imports of certain principal products (a)

Exports and imports of refined gold and silver do not bear any relation to the quantities produced at refineries in this country. Particulars relating to other precious metals are given below.

TABLE 11	Production	Exports	Retained imports
	Th.ozs.troy	Th.ozs.troy	Th.ozs.troy
Platinum			
Refined, in grain, ingot, bar or powder { 19 19 19 19 19 19 19 19 19 19 19 19 19	236.4	129.9 57.5 18.4	7.0 2.9 110.5
Other sorts, including alloys and manufactures 19	112.7(b)	26.2	0.1
Palladium, iridium, rhodium, osmium, ruthenium, [19 and alloys thereof other than platinum alloys [19]	304.3(b)	202.0 111.5	0.3 (c)

 (a) Figures of production (or sales) refer only to larger establishments. All recorded exports from and imports into the United Kingdom are given in the table. The figures therefore, are not strictly comparable. (b) Sales.

(c) Re-exports in excess of imports.

(90597/1)

TABLE 12 Mate Brass and other copper alloys (in excluding other nickel alloys) i parts and scrap Nickel and nickel alloys (excluding except finished parts and scrap

TABLE 13 (i) Operatives

		Great Britain						
		All sections of the trade					All sections of the trade	
· · · · · · · · · · · · · · · · · · ·	1951(Ъ)	1950(b)	1949(b)	1948(c)	1937(c)	1935(c)	1935(c)	
Males Under 18 All ages Females Under 18 All ages	115 3,125 95 1,033	110 2,969 78 1,093	135 2.581 80 928	122 2.579 80 886	214 1.453 124 360	149 1.329 92 307	156 1,583 92 310	
Total Under 18 All ages	210 4.158	188 4.062	215 3,509	202 3.465	338 1,813	241 1,636	248	

(ii) Administrative, technical and clerical employees (d)

		Great Britain					
	1951	1950	1949	1948	1937	1935	1935
Males							
Under 18	20	11	11	15	12	2	2
All ages	988	899	826	778	373	315	364
Females					0,0	010	004
Under 18	63	49	68	41	11	1	1
All ages	457	402	408	386	141	106	110
Total							
Under 18	83	60	79	56	23	3	
All ages	1.445(e)	1,301(e)	1.234(e)	1.164(e)	514	421	474

5/K/6

Usage of certain specified purchased materials, 1951 Larger establishments in Great Britain

erials used	Quantity
	Th.cwts.
ncluding nickel silver, but in all forms, except finished	
	6.9
ing nickel silver) in all forms,	
	0.5

Employment in September Larger establishments (a)

Number

Number

(continued overleaf)

PRECISION INSTRUMENTS, JEWELLERY, ETC.

TABLE 13 (contd.) (iii) Total employees

		Great Britain						
	1951	1950	1949	1948	1937	1935	1935	
Males Under 18 All ages Females Under 18 All ages	135 4,113 158 1,490	121 3.868 127 1.495	146 3.407 148 1.336	137 3.357 121 1.272	226 1.826 135 501	151 1,644 93 413	158 1.947 93 420	
Total Under 18 All ages	293 5,603(e)	248 5,363(e)	294 4.743(e)	258 4,629(e)	361 2.327	244 2,057	251 2,367	

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchanting):-

> Canteen workers 7 121 Females 29 Males Other workers

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937,

(e) Working proprietors. In addition working proprietors, shown in Table 13 (iv) below, were engaged in this trade and October 12, 1935. in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working p	roprietors			Number
		Great B	ritain	
	1951	1950	1949	1948
Males Females	-		2-	2 -
Total	-	-	2	2

Average employment

Larger establishments (a)

TABLE 14							Number	
	an y any man			Great Britain				
	All sections of the trade				Sections of the trade covered by the 1937 Inquiry		All sections of the trade	
	1951	19 50	19 49	19 48	1937	1935	1935	
Operatives	4,268	4,063	3,624	3,465	1,813	1,636	1,893	
Administrative, technical and clerical employees	1,428	1,268	1,235	1,164(b)	514(b)	421(b)	474(b)	
Total	5,696	5,331	4,859	4,629	2,327	2,057	2,367	

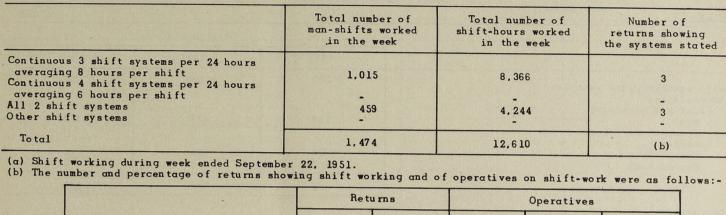
 (a) For employment in small firms (employing on the average ten or fewer persons) see Table 2.
 (b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

		Great Britain					
	19 51	19 50	19 49	19 48	1937	1935	1935
Males Females	- 47	- 55	1 59	1 35			
Total	47 .	55	60	36			••

TABLE 15

Number



Number Percentage of total in trade Percentage of total on returns showing shift-work

TABLE 16

Wages and salaries (a) of

Operatives

Administrative, technical and clerical employees

Total

Employers' contributions to all National Insurance Schemes



(90597/1)

5/K/8

(90597/1)

Shift working, 1951 (a)

Larger establishments in Great Britain

Total number of man-shifts worked ,in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
1,015	8,366	3
- 459 -	4.244	- 3 -
1,474	12,610	(b)

and the second second	Returns		Operatives			
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work	
	15 100.0	5 33.3	4,158 100.0	973 23.4 100.0	275 6.6 28.3	

Wages and salaries and employers' National Insurance contributions paid during the year

Larger establishments

	Great Britain							
1951	1950	1949	1948					
1,545	1.337	1.159	1,059					
977	741	724	699					
2.522	2,078	1,883	1.758					
6 2	56	44	38					

(a) Including bonus and commission payments, but excluding payments to outworkers shown below.

£'000

Great Britain							
51	1950	1949	1948				
	4	5	3				

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments				
TABLE 17	onthe iteral		£*000	
	Great Britain			
	1951	1949	1948	
lant, machinery and vehicles	£,000	£' 000	£°000	
Acquisitions Plant and machinery New	218	475 8	192	
Second-hand Vehicles New Second-hand	29 3	18 3	9 2	
Total acquisitions	250	504	207	
Disposals Plant and machinery Vehicles	5 8	2 (a)	4 5	
Total disposals	13	(α)	9	
ew building work Capital expenditure on new building and other constructional work of a capital nature	I share in the			
(excluding site values and development charges)	195	316	130	

(a) Owing to the risk of disclosure of information relating to individual firms. separate particulars cannot be given.

COUNTRY TABLES

1951

Note - There were no establishments in Wales and no larger establishments in Scotland in the register for this trade.

TABLE 18 - Summary: Larger establishments

See Table 1.

TABLE 19 - Summary: Small firms

Owing to the risk of disclosure of information relating to individual firms this table cannot be given. For information relating to Great Britain as a whole, see Table 2.

Refined, in bars, etc.

Partly refined, in bars, etc.

Manufactures of gold not specified above

Gold leaf

Gold sheet

Gold fuse wire (a)

Other gold wire (a)

Other

Platinum

TABLE 20

Gold

Principal products

Refined, in grain, ingot, bar or powder

Other sorts, including alloys and manufactur not elsewhere specified

Silver

Refined

Manufactures of silver

Fine silver sheet

Fine silver wire

Alloyed silver, including solders

Other manufactures of silver

Palladium, iridium, rhodium, osmium and ruthen alloys thereof other than platinum alloys (a)

Rolled gold

Silver, partly refined

Other precious metals

Concentrates, metallic residues, wastes, etc.

Work done for the trade or on commission (b) Refining of precious metals

Other

Total principal products

Other output

Copper and manufactures thereof

Brass and other copper alloys (including nicke but excluding other nickel alloys) and manufa thereo f

Other non-ferrous metals and manufactures ther Chemical manufactures

Other goods

Work done (b)

Total

(a) So far as recorded separately. (b) Amount charged.

(90597/1)

Sales in the trade

Larger establishments

	Engl	and
	Quan ti ty	Value
	Th.ozs.troy	£,000
	1,167.6	14,730
	74.0	923
	302.3	3,211
		570
	40.8	299
	311.4	2.747 648
	219.6	6,876
8,	112.7	3, 379
	20,720.1	6,513
	2,155.9	604
	395.0	150
	8,611.8	1,880
	881.9	237 608
m, and	304.3	3,867
	1,586.1	1,061 203
	10,237.2	2,558
	116.2	332
	ų	173
	Th.tons 1.1	228
	,1	21
		3 56
		125
		52,300
	2.4	664 554
silver,		
tures	{ 7.4 	2,185
f	••	554
	••	3,352
		2,380
		62,069

Stocks of products on hand for sale and work in progress, and stocks of materials and fuel

Larger establishments

		England
Products on hand for sale	{ at beginning of year at end of year	4.372 5.032
Work in progress	at beginning of year at end of year	2.709 2.227
Total products on hand for sale and work in progress	at beginning of year at end of year	7.081 7.259
Materials and fuel	{ at beginning of year at end of year	2.011 2.477

TABLE 22 - Employment in September: Larger establishments

See Table 13.

TABLE 23 - Average employment: Larger establishments

See Table 14.

TABLE 24 - Wages and salaries and employers' National Insurance contributions paid during the year: Larger establishments

See Table 16.

TABLE 25 - Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work: Larger establishments

See Table 17.

Payments for transport services for finished goods sold and materials and fuel purchased

Larger establishments

TABLE 26	£*000	
	England	
Amounts paid to other firms and undertakings	33	
Amount paid or credited to firms' own separate transport organisations	3	
Total	35	

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of produc-tion for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production. Trade classification: Establishments are classified to

trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, ware-houses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. **Operatives** include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return who are shown separa-tely as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or parttime employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

Wages and salaries include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of mater-ials for use in production and of fuel (including oil. gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

GENERAL NOTES

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed give these at income tax value

Output: Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an exworks or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption. Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details

might disclose the operations of an individual firm. Symbols used: '..' for 'Not available'. '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

CROWN COPYRIGHT RESERVED

PRINTED AND PUBLISHED BY HER MAJESTY'S STATIONERY OFFICE To be purchased from

York House, Kingsway, LONDON, W.C.2 423 Oxford Street, LONDON, W.1 P.O. Box 569, LONDON, S.E.1 13a Castle Street, EDINBURGH, 2 39 King Street, MANCHESTER, 2 2 Edmund Street, BIRMINGHAM, 3 80 Chichester Street, BELFAST

or from any Bookseller

1955

Price 1s 6d net

PRINTED IN GREAT BRITAIN

