# THE HARDWARE, HOLLOW-WARE, METALLIC FURNITURE AND SHEET METAL TRADES

Note.—For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

#### Introductory

This trade comprises firms that were engaged in the manufacture of a large variety of finished metal goods, including household and industrial hollow-ware, bedsteads, hearth furniture, safes, locks and keys, etc. The great bulk of these products consisted of iron and steel but, in some cases, brass and other metals formed the main or sole material. Firms whose principal business consisted in the manufacture of finished brass goods were grouped as a distinct trade (see page 460), but as finished brass goods were classified on a different basis from that used for similar goods of iron or steel it is not possible to arrive at aggregate production figures for many classes of finished goods in the manufacture of which brass is used as an alternative material.

For the purposes of this report, particulars of production, prices, and overseas trade are given separately for the four sections indicated on page 93; for each of the remaining heads of information, the trade is treated as a combined whole.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than ten persons:—

Particulars	Unit	1930	1924
Value of goods made and work done (Gross output)	£'000	28,577	23,285
Cost of materials used	,,	13,745	11,577
Paid for work given out to other firms	,,	145	125
Net output	,,	14,687	11,583
Average number of persons employed	No.	82,600	66,696
Net output per person employed	£	178	174
Power available:—			
Prime movers	H.P.	12,882	17,682
Electric motors driven by purchased electricity	,,	64,059	36,248
Number of returns	No.	925	885
Number of establishments		977	*

<sup>\*</sup> Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 10,095, the corresponding figure for 1924 being 7,390.

IRON AND STEEL TRADES

In addition, 288 firms to which schedules were sent at the 1930 Census and 450 at that of 1924 furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year.

The value of the gross output of the small firms in 1924 was £1,553,000 (including £48,000 in respect of all firms in Northern Ireland), and particulars of the principal items included in this figure are given below:-

	£'000
Hollow-ware, including tin boxes and containers	. 611
Sheet metal work, including stampings, pressings	
piercings, spinnings, etc	007
Other goods	. 123
Work done for the trade, including jobbing iron	-
mongery and repair work	
• •	
TOTAL	. 1,553

The output of the small firms formed about 40 per cent. of the total amount recorded for 1924 in respect of repairs and other work done, but only about 4 per cent. of the total value of goods made.

Size of firms.—In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns:

Size of firm (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
2000	No.	£'000	£'000	No.	£
11-24	296	1,637	939	5,251	179
25-49	 251	2,977	1,512	8,751	173
50-99	175	4,324	2,129	12,189	175
100-199	104	4,827	2,423	13,740	176
200-299	40	3,541 .	1,883	9,782	193
300-399	21	2,746	1,410	7,302	193
400-499	10	2,009	995	4,423	225
500-749	 18	3,406	1,714	10,802	159
750 and over	 10	3,110	1,682	10,360	162
TOTAL	925	28,577	14,687	82,600	178

Regional distribution.—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas\* of Great Britain in which firms in this trade are situated :-

Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1 1930	220	8,178	4,342	20,051	217
1\\ 1924	174	5,840	2,967	13,749	216
2 1930	74	2,592	1,204	7,218	167
2 \ 1924	88	2,295	1,039	6,107	170
3 1930	56	1,361	725	3,750	193
3 \ 1924	54	983	503	3,108	162
4 \$ 1930	26	858	378	2,030	186
1924	19	370	138	804	172
5 1930	422	11,329	5,979	36,638	163
1924	427	10,941	5,641	34,704	163
6 \$ 1930	65	2,837	1,349	8,511	158
1924	59	1,578	715	4,461	160
7 \ \frac{1930}{1930}	15	740	352	2,233	158
1924	12	518	222	1,563	142
9 \$ 1930	35	440	228	1,518	150
1924	35	490	239	1,429	167
10 \$ 1930	12	242	130	651	200
10 \ 1924	17	270	119	771	154
Тотац \$1930	925	28,577	14,687	82,600	178
10TAL \ 1924	885	23,285	11,583	66,696	174

Northern Ireland.—Owing to the risk of disclosing particulars relating to individual firms, separate details of the production of the Hardware, Hollow-ware, Metallic Furniture and Sheet Metal Trades in Northern Ireland were not published for the year 1930, the information obtained being combined with that for the Tool and Implement and Cutlery Trades. The aggregate figures recorded in respect of these trades for 1930 are shown below, together with separate particulars for the Hardware, Hollow-ware, Metallic Furniture and Sheet Metal Trades and the Tool and Implement Trade in 1924. No production of cutlery was recorded for Northern Ireland in 1924.

		1930	1924		
Particulars	Unit	Hardware, etc., Tool and Cutlery Trades	Hardware, etc. Trades	Tool and Imple- ment Trade	
Value of goods made and work done (Gross output)	£,000	35	48	8	
firms	,,	15	26	3	
Net output	,,	20	22	5	
Average number of persons employed	No.	139	172	32	
Net output per person employed Power available:—	£	144	125	143	
Prime movers Electric motors driven by pur-	H.P.	132	33	77	
chased electricity	,,	13	24	4	

<sup>\*</sup> For particulars see page xviii.

The above figures for 1930 relate to firms that employed an average of more than five persons and those for 1924 to all firms.

Sub-divisions of the industry.—In the following table the results of the 1930 Census are grouped in 11 separate sections, each of which comprises firms whose main business consisted in the class of production specified in the first column. Comparable figures for 1924 can only be given in the more general grouping indicated in the table.

				CONTRACTOR OF P	9
Group	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
Domestic hollow-ware:—	No.	£'000	£'000	No.	£
(1) Of wrought iron and steel 1930	111	3,164	1,623	11,130	146
(2) Of aluminium 1930	24	1,135	562	3,014	187
(3) Of cast iron 1930	5	113	69	554	123
Hollow-ware for industrial and	243			1 000000	
other purposes:—				10000	
Of wrought iron and					
steel— (4) Tin boxes and con-	100		200	A SERIA	
tainers 1930	88	6,282	2,723	17,770	153
(5) Kegs and drums 1930	35	1,355	552	2,544	217
(6) Vats, tanks and			3-12545	Best free	EDENTE DE
cisterns and all			nd las	Civilian d	
other sorts (in-			198		and brokell
cluding cash and deed boxes, etc.) 1930	53	2,199	1,118	5,318	210
deed boxes, etc.) 1300	00	2,100			210
m (1930)	316	14,248	6,647	40,330	165
Total—Hollow-ware $\begin{cases} 1930 \\ 1924 \end{cases}$	da %	14,789	7,048	41,824	169
(T) Predetaids wire met )	MARKET !	B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MARKS 1	Sacrages.
(7) Bedsteads, wire mattresses and hearth	107	2,667	1,369	6,971	196
furniture 1924	1000000	1,973	983	4,366	225
(8) Safes, locks, latches 1930	64	1,709	1,163	6,542	178
and keys \ 1924	•••	1,778	1,166	6,908	169
Other groups:—					
(9) Enamelled signs, tablets, etc 1930	17	508	272	1,526	178
tablets, etc 1930 (10) All other products* 1930	349	8,799	4.828	24,981	193
(11) Work done for the	010	0,100	1,020	21,001	
trade, iron and				-027	
steel structural					
work, jobbing					
ironmongery and repair work 1930	72	646	408	2,250	183
repair work 1930	14	040	100	2,200	100
Manual Other manual \$1930	438	9,953	5,508	28,757	192
Total—Other groups $\begin{cases} 1330 \\ 1924 \end{cases}$		4,745	2,386	13,598	175
	925	90 577	14 607	82,600	178
TOTAL—ALL GROUPS $\begin{cases} 1930 \\ 1924 \end{cases}$	885	28,577	14,687	66,696	174
(1324	1 000	100,000	111,000	00,000	1 4.4

<sup>\*</sup> Includes small quantities of cast iron, aluminium and copper hollow-ware for industrial and other purposes.

#### Production

The output of these trades is dealt with below in the following four sections:—

- (1) Hollow-ware (for industrial and domestic purposes);
- (2) Bedsteads, wire mattresses and hearth furniture;
- (3) Safes, locks, latches and keys;
- (4) Other products, mainly of sheet metal.

(1) **Hollow-ware.**—The following table shows the quantities (where available) and values of the various classes of industrial and household hollow-ware made in 1930 and 1924:—

			19	30	Corne I		19	24		
Kind of goods	200	Return	Returned on schedules for					China Mistr		
Kind of goods	The Hardware, Hollow-ware, etc. Trades			A	ll trades	Total				
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value		
	Th.	£,000	No.	Th.	£'000	No.	Th.	£,000		
Hollow-ware for domestic purposes:— Of wrought iron and steel—	888.00			161,4		1/2/2/3 * * * * * * * * * * * * * * * * * * *		TOMES TOMESTAR		
Not enamelled, tinned or galvanised	1.5	59	21 8	1.5	59 39	21 8	} 4.5	237		
Enamelled	16·6 23·8	1,118 747	29 55	16·8 24·5	1,132 768	32 56	14.0	1,177 1,143		
Tinned or of tin-	* 5·3 *	175 296 447	20 44 38	* 5·3 *	175 299 448	21 46 40	12.6	878		
Not separately distinguished	5.0	157	4	5.0	159	5	00 70 30,	and A		
Of cast iron— Not enamelled or tinned Enamelled or tinned Not separately distinguished	1·4 1·1 *	40 46 15	7 10 1 —	1.6 1.5 *	43 76 15 20	10 13 1 4	5·2 4·0 *	108 213 33		
Of wrought or cast iron and steel, not separately distinguished	_					-{	1.9	109 268		
Of aluminium {	1.6	455 476	15 19	1.7	468 493	18 20	1.0	357 259		
Готац — Hollow-ware for domestic purposes	•••	4,070	•••	•••	4,194	10,803	t joebu	5,172		

HADDWA	DE	HOLLOW-WARE.	ETTO

			19	930			19	24
		Return		Lorent H				
Kind of goods	The Hardware, Hollow-ware, etc. Trades				All trades	Total		
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value
Hollow-ware for industrial and other purposes:  Of wrought iron and steel—	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000
Tin boxes and containers  Kegs and drums  Vats, tanks and cisterns Other sorts, not elsewhere specified	126·2 29·2 22·6 * 10·5	2,917 2,929 700 618 749 674 304 180	60 56 26 26 31 26 29 31	126·3 29·2 27·3 * 10·5	2,922 3,290 700 650 852 1,244 304 209	61 71 26 31 47 59 29 40	46·5 *	2,368† 5,799†
Of cast iron {	0.9	44 33	5 2	2.3	77 49	98	‡	‡
Of aluminium— Vats, tanks, etc.		9	4		91	6		17
Total — Hollow-ware for industrial and other purposes		9,157	•••		10,388	303		8,184
Hollow-ware not separately distinguished Cash and deed boxes, trunks, suit-cases, etc., of sheet iron and steel	0.8	- 84 85	15 14	0.8	- 84 85		 2·2 *	1,110 205 128
Total-Hollow-ware		13,396			14,751			14,799

\* Quantity not stated.

+ These figures are made up of the following items:-

£'000

Boxes, containers, etc., of tinplate ... ... 5,306
Metal boxes and containers, tanks, cisterns, drums,
kegs, etc., not separately distinguished ... 2.861

† Not separately recorded.

Of the total value of hollow-ware of all kinds shown as returned for 1930 on schedules for the Hardware, etc., Trades (£13,396,000) the output of the firms that are classified as manufacturers of hollow-ware in the table on page 92 (groups (1) to (6) inclusive) amounted to £12,720,000, while the value of other goods made and work done by those firms amounted to £1,528,000\*. These

figures show that the manufacture of hollow-ware is substantially a self-contained industry, carried on by firms specialising very largely in that class of production. In connection with the particulars recorded for wrought enamelled hollow-ware, it should be noted that the Finance Act, 1928, imposed a duty of 25 per cent. ad valorem on imports of such goods for a period of five years from 13th June, 1928.

Prices.—The average selling values of certain classes of hollowware in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that these comparisons do not take account of any changes that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions. A similar comparison cannot be made in respect of the various classes of industrial hollow-ware, owing to the small proportion of the output for which particulars of quantity were furnished at the 1924 Census.

T. 16 1	Averag	1930 as a	
Kind of goods	1930	1924	percentage of 1924
Domestic hollow-ware :— Of wrought iron and steel—	£ per ton	£ per ton	Per cent.
Not enamelled or tinned or gal-			
vanised	40.7	52.9	76.9
Enamelled	67.5	84.0	80.3
Galvanised	31.4	40.8	76.9
Tinned or of tinplate	56.3	69.5	81.0
Of cast iron—		CHEMINAL SECTION	
Not enamelled or tinned	27.9	20.2	138 · 1
Enamelled or tinned	50.4	52.8	95.4
Of aluminium	282 · 6	372.4	75.9
Cash and deed boxes, suit-cases, trunks,			
etc. of sheet iron or steel	109.3	92.1	118.6

Production, exports and imports.—Owing to the large output of hollow-ware that was recorded only in terms of value and to differences in classification, no precise comparison can be made between the production and the exports and retained imports of hollow-ware. It is, however, evident from the following table that, except as regards wrought enamelled hollow-ware, the home market was substantially supplied by home products in both years. In the case of wrought enamelled hollow-ware, imports formed about one quarter of the available supplies for the home market in 1930; in 1924 the proportion was probably somewhat greater, but the large unclassified output in that year renders any exact comparison impossible.

<sup>\*</sup> Other manufactures, £1,061,000; scrap metal sold, £161,000; and work done for the trade, £306,000.

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V:-J-fJ-	Expo	orts	Retained	Retained imports		
Kind of goods	Quantity	Value	Quantity	Value		
Hollow-ware (for household, industrial, etc. use):— Of iron and steel—	Tons	£'000	Tons	£'000		
Cast, not enamelled, etc $\begin{cases} 1930 \\ 1924 \end{cases}$	3,238 6,044	89 199	19 16	2 1		
Cast, enamelled $\begin{cases} 1930 \\ 1924 \end{cases}$	832 1,069	71 111	24 246	1 13		
Cast, tinned $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	734 771	43 69	21 5	* 2		
Wrought, not enamelled $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	342 916	22 63	115 69	6		
Wrought, enamelled $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	2,096 2,749	191 335	5,009 5,762	255 335		
Wrought, galvanised $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	3,264 4,177	143 221	880	26 1		
Of tinned plate $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	2,240 3,138	153 286	64 120	7 15		
Of aluminium:—  Domestic hollow-ware 1930	323	78	344	85		
Vats, tanks, etc. for indus- 1930	397	215	204	60		
trial purposes 1924 Cash and deed boxes, trunks, 1930	673	3 82	† 71	†		
suit-cases, etc. of sheet iron 1924	1,440	160	17	3		

<sup>\*</sup> Less than £500.

† Negligible.

(2) Bedsteads, wire mattresses and hearth furniture.—The following table shows the quantities (where available) and values of the output in 1930 and 1924:—

· San I was		1924							
	7	Returned on schedules for							
Kind of goods	The Hardware, Hollow-ware, etc., Trades			All trades			Total		
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value	
ned imports as higher-	Th. tons	£,000	No.	Th. tons	£'000	No.	Th.	£'000	
Bedsteads, complete, and finished parts thereof (including finished tubes)	25.5	664 329	24 11	27.4	701 384	25 27	20.5	696 597	
Wire mattresses {	4.5	191 322	14 15	4.9	232 757	20 106	10.6	345 658	
Hearth furniture (including coal boxes)	in the	940	77	oe.old	974	82	11-12	435†	
TOTAL VALUE		2,446			3,048			2,731	

<sup>\*</sup> Quantity not stated.

Of the total value shown above (£2,446,000) as returned on schedules for the Hardware, Hollow-ware, Metallic Furniture and Sheet Metal Trades, the value of the output of the firms included in group (7) of the table on page 92 amounted to £2,384,000, or about 97 per cent. The value of other goods made and work done by these firms amounted to £283,000.

Prices.—The average selling values of bedsteads and wire mattresses in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that these comparisons do not take account of any changes that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions. Moreover, in view of the large proportion of the output for which quantities were not stated, the prices may not be truly representative.

Kind of goods	Averag	1930 as a	
Killa of goods	1930	1924	percentage of 1924
Bedsteads, complete, and finished parts	£ per ton	£ per ton	Per cent.
thereof (including finished tubes)	25.6	34.0	75.3
Wire mattresses	47.1	32.5	144.8

Production, exports and imports.—In view of the large output of bedsteads and wire mattresses for which particulars of value only are available, comparison between the production and the exports and retained imports of these goods cannot be made in terms of quantities. The following table shows the total recorded value of the production of these goods in 1930 and 1924 in relation to the quantities and values of exports and retained imports in the same years. In comparing the figures, the differences in the bases of valuation should be borne in mind. The production figures for 1924 include the recorded output of all firms in Northern Ireland as well as that of small firms in Great Britain.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1930	1924
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		£,000	£'000
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1,085	1,305
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Exports (value f.o.b.)	309	679
	$(Th.\ tons)$	$(7\cdot 1)$	$(12 \cdot 6)$
	Retained imports (value c.i.f.)	22	9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$(Th.\ tons)$	$(0\cdot 4)$	$(0\cdot 1)$
Exports (value f.o.b.) $43$ 33 $(Th. tons)$ $(\theta \cdot 2)$ $(\theta \cdot 3)$ Retained imports (value c.i.f.) 18 3	Wire mattresses:—		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Production (value at factory)	989	1,046
Retained imports (value c.i.f.) 18 3	Exports (value f.o.b.)	43	33
	(Th. tons)	$(0\cdot 2)$	$(0\cdot3)$
(Th tons) (0.5) (0.1)	Retained imports (value c.i.f.)	18	3
(110.0000) (0.0)	(Th. tons)	(0.5)	$(0\cdot 1)$

A similar comparison cannot be made as regards hearth furniture as these goods are not separately distinguished in the trade returns.

<sup>†</sup> Including art metal work.

(3) Safes, locks, latches and keys.—The following table shows the quantities (where available) and the values of the output in 1930 and 1924:—

Marie Survey page 1879		1930						1924	
The second second		Returned on schedules for						184	
Kind of goods	The Hardware, Hollow-ware, etc., Trades  All trades		Tot		tal				
book to some to 1934	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value	
che i la compressa di consultante	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000	
Safes	5.6	423	16	5.7	426	18 {	4.3	390 134	
Strong rooms and fittings therefor  Locks, latches and {  keys	2.3	157 352 772	3 21 46	2.3	160 356 775	4 22 49	}	† 1,217	
TOTAL VALUE	11.00	1,704			1,717			1,741	

<sup>\*</sup> Quantity not stated.
† Not separately recorded.

The firms forming group (8) in the table on page 92 recorded an output of the above goods valued at £1,631,000, or nearly 96 per cent. of the value of the entire output. The value of other goods made and work done by these firms amounted to £78,000.

Prices.—The average selling value of safes made in 1930, as calculated from the Census returns, was £74·1 per ton as compared with £90·9 in 1924, showing a decline of 18·5 per cent. Owing to the absence of records of quantity for 1924, a similar comparison cannot be made in respect of locks, latches and keys.

Production, exports and imports.—The following statement shows, in relation to production, the values and quantities of safes exported from the United Kingdom in 1930 and 1924, together with particulars of those imported and retained. The deficiency in the 1930 figures of production arising from the absence of information regarding the output of the small firms and of the firms in Northern Ireland is probably under 2 per cent.

	1930	1924
Safes:—	£'000	£'000
Quantity stated	426	390
Production /	(5.7)	(4.3)
Quantity not stated		143
Exports (value f.o.b.)	96	156
(Th. tons)	(1.2)	(1.5)
Retained imports (value c.i.f.)	49	4
(Th. tons)	$(0\cdot 1)$	*

\* Less than 50 tons.

Corresponding particulars in respect of locks, latches and keys are not available as these commodities were not separately recorded in the trade returns prior to 1930. In that year the production of locks, latches and keys was valued at £1,131,000, exports at £273,000 (1,400 tons), and retained imports at £132,000 (900 tons).

(4) Other goods characteristic of the Hardware, Hollow-ware, etc., Trades.—This group includes a large variety of sheet metal goods, the majority of which were not precisely described. The following table gives particulars of the output in 1930 and 1924. It should be borne in mind that, in the case of goods marked with an asterisk, the particulars given represent only those recorded under the specific description indicated and may therefore fall short to some extent of the aggregate production.

			193	30			19.	24
		Return	ed on	schedule	iles for			
Kind of goods	The Hardware, Hollow-ware, etc., Trades  All trades		Total					
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value
D 11 1 14-1	Th.	£'000	No.	Th.	£'000	No.	Th.	£'000
Enamelled signs and tab- lets and hearth plates Metallic furniture for	tons	437	28	tons	469	33	tons	446
hospitals and office use (except aseptic hospital	8.5	454 200	10 8	8.5	454 361	10 14	}	224
furniture) Cookers and heaters of sheet iron, enamelled or	†3	200	•	†	301	14	)	
not (including parts) Fire extinguisher apparatus		476 385	41 12		486 399	47 17		255‡ 404
Lamps and lanterns (ex- cept electric lamps)	Thous. 651 † Th.	115 150	25 20	Thous. 651 † Th.	115 158	25 26	Thous. 665 † Th.	181 526
Metallic closures for bottles, jars, etc.*	tons	1,273	17	tons	1,336	20)	tons	
Ventilators, pipes, cowls and the like, of sheet iron and steel*	3.6	228 192	15 23	3.7	231 201	16 27		
Other builders' iron- mongery, mainly of sheet metal*	4.8	206 447	21 26	5.3	220 678	23 63		
Other goods mainly of sheet metal (including stampings, pressings, piercings, etc.):—		3 800		100	1.7.636		-	4,101
Of iron and steel {	14.1	472 1,353	62 120	17.3	573 1,879	76 224		state at
Of brass { Of other and unspecified metals	$\begin{bmatrix} 0.8 \\ \dagger \\ 4.2 \\ \dagger \end{bmatrix}$	107 399 304 897	17 49 38 101	$\begin{array}{ c c }\hline 1 \cdot 1 \\ \uparrow \\ 5 \cdot 0 \\ \uparrow \end{array}$	144 424 370 1,334	19 56 45 142	nd sales on almos	section results
TOTAL VALUE	-	8,185		- ·	9,832		100	6,137

<sup>\*</sup> So far as separately recorded.

<sup>†</sup> Quantity not stated. ‡ "Stoves of sheet metal."

*Prices*.—In view of the lack of representative particulars of quantity for the great bulk of the goods included in the foregoing table, no comparison of average selling values is practicable.

Production, exports and retained imports.—Of the goods dealt with in the foregoing table of production, the only classes in respect of which separate particulars of external trade are available are "Metallic furniture for hospital and office use" and "Lamps and lanterns". The following figures show the value of the recorded production of these goods in relation to that of the exports and the retained imports in both years. The differences in the bases of valuation should be borne in mind in comparing these figures.

	Production (value at factory) £'000	Exports (value f.o.b.) £'000	Retained imports (value c.i.f.) £'000
Metallic furniture for hospital and office use (except aseptic hospital furniture) 193	0 815	188	132
	4 224	88	97
Lamps and lanterns (except electric) $1936$	273	86	76
	4 707	159	68

Summary of production.—The following table summarises the foregoing figures and gives information as to the amounts recorded for 1924 on schedules for the Hardware, Hollow-ware, etc., Trades and for other trades:—

	198	30	Returned on schedules for		
Group	Returned of fo	n schedules r			
	The Hardware, Hollow- ware, etc., Trades	All trades	The Hardware, Hollow- ware, etc., Trades	All	
Hollow-ware (for industrial and	£'000	£'000	£'000	£'000	
domestic purposes) Bedsteads, wire mattresses and	13,396	14,751	12,090	14,799	
hearth furniture	2,446	3,048	1,085	2,731	
Safes, locks, latches and keys	1,704	1,717	1,648	1,741	
Other goods mainly of sheet metal	8,185	9,832	5,849	6,137	
TOTAL	25,731	29,348	20,672	25,408	

It will be observed from the above figures that in 1930 the manufacture of these goods was concentrated to a much greater extent in the hands of firms engaged in the trades concerned than it was in 1924, the amount recorded on schedules for other trades being 12 per cent. in 1930 and 19 per cent. in 1924 of the total recorded for all trades. While each of the three specific subdivisions of the Hardware, Hollow-ware, etc., Trades showed this feature, the change between 1924 and 1930 in respect of the manufacture of bedsteads, wire mattresses and hearth furniture was remarkable.

Work done for the trade (including structural and repair work).—
The total amount recorded as received for work done for customers in 1930 was £1,362,000, the corresponding total for 1924 being £908,000. The principal kinds of work done are shown below, the total for 1930 including a sum of £40,000 and that for 1924 a sum of £2,000 recorded on schedules for other trades. Galvanising work carried out by the Iron and Steel (Smelting and Rolling) Trade is not included.

gen - I want I wondered an		,000 (054	1930	1924
Kind of work done		Water	Amount	Amount received
The state of the state of the state of the	(Balling)	escriberation	£,000	£'000
Iron and steel structural work	0.800		110*	56
Jobbing ironmongery and repair work	2		211	349
Work done for the trade:—				MALES OF STREET
Galvanising		-trensite	476	345
Japanning, lacquering, enamelling		44	234	95
Tinning		2473	19	23
Chromium and other plating†			246	3 40
Other work done			66	15
TOTAL	15,82	H	1,362	908

<sup>\*</sup> Exclusive of the goods made and used by the firms that carried out the work, the values of which are included in those shown for the goods concerned.

† So far as separately recorded.

Volume of production in 1930 and 1924.—The following table compares the volume of production of the principal products of the Hardware, Hollow-ware, etc., Trades in 1930 and 1924:—

	To	otal product	ion	1000
Kind of goods	1930	19	24	1930 as a
	As returned	As returned	At 1930 average values	percentage of 1924
Hollow-ware:— Domestic, of wrought iron and	£'000	£'000	£,000	Per cent.
steel (including tinned and of tinplate)  Domestic, of cast iron  Domestic, of wrought or cast iron and steel not separately	3,079 154	3,828 351	3,036 380	101 41
distinguished  Domestic, of aluminium  For industrial and other purposes Cash and deed boxes, trunks, suit-	961 10,388	· 377 616 9,294‡	308 468 7,621§	205 136
cases, etc., of sheet iron and steel	169	333	395	43
Total—Hollow-ware, cash and deed boxes, trunks, etc.	14,751	14,799	12,208	121
Safes Strong rooms and fittings therefor	426 160	524 *	427 *	100
Bedsteads and wire mattresses	2,074	2,296	2,426	85
Lamps and lanterns	273	707	459	59
Locks, latches and keys Other products (including stamp-	1,131	1,217	992	114
ings, pressings, piercings, etc.)  Jobbing ironmongery and repair	10,533	5,865	5,300¶	199
work	211	349	$300\phi$	70
Total	29,559	25,757	22,112	134

\* Not separately recorded.

‡ Including hollow-ware for all purposes not separately distinguished.

§ Based on average values of domestic hollow-ware (excluding aluminium).

|| Based on average values of safes.

Based on average values of tinned plates and black sheets, with allowance for wages.

 $\phi$  Based on average value of all preceding items.

Other products.—In addition to the output dealt with in the preceding sections of this report, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Hardware, Hollow-ware, etc., Trades. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Transport to the State of the S	1930	1924
Kind of goods	Value	Value
OCCUPANTO DE COMO COMO COMO CONTROLO CO	£'000	£'000
ron castings	44	146
Other and unclassified manufactures of iron and steel		THE PERSON NAMED IN
(including machinery and parts)	498	771
lanufactures of non-ferrous metals	468	394
Innufactures of wood	81	50
Other goods made	152	105
The second of th		
TOTAL	1,243	1,466

Waste products sold.—The following sales of manufacturers' scrap and other waste products were recorded by firms in these trades in 1930 and 1924:—

		1930 £'000	1924 £'000
Iron and steel scrap	 	135	108
Spelter	 	53	93
Brass scrap	 	53	} 40
Other waste products	 	40	5 40
		o:	
TOTAL	 	281	241

### Employment and Wages

**Employment.**—The following table shows the average numbers of persons employed in 1930 and 1924:—

576 Tan 925 ES	Males		Fem	ales	Total	
Persons employed	Under 18	All	Under 18	All ages	Under 18	All
1930 Operatives (average for the year) Administrative, technical and	7,418	41,715	11,496	32,680	18,914	74,395
clerical staff (as at 18th October)	515	5,630	452	2,575	967	8,205
TOTAL	7,933	47,345	11,948	35,255	19,881	82,600
1924 Operatives (average for the year) Administrative, technical and	6,229	35,095	8,628	25,279	14,857	60,374
clerical staff (as at 18th October)	407	4,326	362	1,996	769	6,322
TOTAL	6,636	39,421	8,990	27,275	15,626	66,696

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 18 and 19.

### Power

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924:—

Power		1930		THE STATE OF SERVICE SERVICES	1924	
equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS Reciprocating steam	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
engines Steam turbines Internal combustion engines :—	1,839	850 —	2,689	3,717 200	946	4,663 200
Gas Petrol, kerosene, or	6,385	699	7,084	10,513	1,502	12,015
other light oils Heavy oils Water engines	86 2,790 —	10 223 —	3,013 —	52 602 72	22 50 6	74 652 78
TOTAL	11,100	1,782	12,882	15,156	2,526	17,682
ELECTRIC GENERATORS Driven by Reciprocating steam	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
engines Steam turbines Internal combustion engines :—	588 —	404	992	628 150	367	995 150
Gas Petrol, kerosene, or other light	765	61	826	1,290	467	1,757
oils Heavy oils	915	12 132	$\begin{array}{c c} 12\\ 1,047 \end{array}$	122	37	159
TOTAL	2,268	609	2,877	2,190	871	3,061
ELECTRIC MOTORS Driven by	н.Р.	H.P.	H.P.	н.р.	н.р.	H.P.
Electricity generated in same works Electricity generated in other works under same owner-	2,300	296	2,596	1,795	96	1,891
ship Purchased electricity	682 58,155	100 5,904	782 64,059	133 31,310	4,938	133 36,248
TOTAL	61,137	6,300	67,437	33,238	5,034	38,272

# Consumption of fuel

The following table shows the quantities of coal, coke and electricity recorded as used in 1930:—

Kind of fuel used	For power (driving engines)	For other purposes (so far as recorded)	For power and other purposes, not separately distinguished
Coal Coke	Tons 11,651 278	Tons 82,992* 40,527*	Tons 134 —
			B.T.U. (Kwhrs.) '000
Electricity used for all purposes:— Generated in same works Generated in other works under a Purchased			2,493 652 42,144
Тота	L—Electricity .		45,289

<sup>\*</sup>These figures were recorded by firms representing  $97 \cdot 6$  per cent. of the net output of the whole trade.

# TABLES

# I. Summary of results

Particulars .	Unit	England and Wales	Scotland	Great Britain
Value of goods made and work done (Gross output) Cost of materials used Paid for work given out to other firms Net output Average number of persons employed Net output per person employed Power available:— Prime movers Electric motors driven by purchased electricity	£'000 ,,, ,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,	27,895 13,423 142 14,330 80,431 178 12,615 61,955	682 322 3 357 2,169 165 267 2,104	28,577 13,745 14,687 82,600 178 12,882 64,059

# II. Production

Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
Hollow-ware for domestic purposes:—  Of wrought iron and steel:—  Not enamelled or tinned or galvanised   Enamelled {  Quantity not stated Quantity stated Quantity not stated Quantity not stated Quantity not stated Tinned or of tin- Quantity stated Quantity not stated Not separately distinguished {  Of cast iron:—  Not enamelled or funned {  Enamelled or Quantity stated Quantity not stated Quantity not stated Quantity not stated {  Quantity not stated Quantity not stated Quantity not stated {  Quantity not stated {  Quantity not stated }  Total—Hollow-ware for domestic	Th. tons £'000 £'000 Th. tons £'000 £'000 Th. tons	1·5 59 39 16·6 1,118 * * * * * 5·0 157 * * * * 4455 476	* * * * * * * * * * * * * * * * * * * *	$1 \cdot 5$ $59$ $39$ $16 \cdot 6$ $1,118$ $23 \cdot 8$ $747$ $175$ $5 \cdot 3$ $296$ $447$ $5 \cdot 0$ $157$ $1 \cdot 4$ $40$ $1 \cdot 1$ $46$ $15$ $1 \cdot 6$ $455$ $476$
purposes	£'000	4,046	24	4,070

Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
Hollow-ware for industrial and other purposes:— Of wrought iron and steel:—	LICENTES LOS			
Tin boxes and \[ \int Quantity stated \]	Th. tons	123 · 1	3.1	126.2
	£'000	2,784	133	2,917
Containers Quantity not stated	£'000 Th. tons	$\begin{array}{c} 2,839 \\ 27 \cdot 8 \end{array}$	90	$\begin{array}{c} 2,929 \\ 29 \cdot 2 \end{array}$
Kegs and drums \ Quantity stated \ \	£'000	671	29	700
Quantity not stated	£'000	545	73	618
>	Th. tons	22.1	0.5	22.6
Vats, tanks and Quantity stated {	£'000	736	13	749
cisterns Quantity not stated	£,000	655	19	674
Other sorts, not Quantity stated	Th. tons	*	*	10.5
elsewhere >	£'000	*	*	304
specified J Quantity not stated	£'000 Th. tons	0.9	40,200	0.9
Of cast iron Quantity stated	£'000	44		44
Quantity not stated	£,000	33	escara de la	33
Of aluminium: Vats, tanks, etc	£'000	*	*	9
Total—Hollow-ware for industrial and other purposes	£'000	8,773	384	9,157
Cash and deed boxes,	Th. tons	0.8		0.8
trunks, suit-cases, Quantity stated	£'000	84		84
etc., of sheet iron and steel Quantity not stated	£'000	85	- Alle Assas w	85
Total—Hollow-ware	£'000	12,988	408	13,396
Bedsteads, complete,			elly.	skeric drock
1 6-:-1-1	Th. tons	25.5	_	25.5
parts thereof (in-) Quantity stated	£'000	664	an en <del>la</del> sa	664
cluding finished Quantity not stated tubes)	£,000	329	_	329
	Th. tons	4.5	continue - territor	4.5
Wire mattresses Quantity stated {	£'000	191	The state of the s	191
Quantity not stated	£,000	322	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	322
Hearth furniture (including coal boxes)	22000	*	*	040
not elsewhere specified	£'000 Th. tons	5.6		940 5.6
Safes	£'000	423		423
Strong rooms and fittings†	€,000	157	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	157
	Th. tons	2.3		2.3
Locks, latches and Quantity stated {	£'000	352	2000	352
keys Quantity not stated Enamelled signs and tablets and hearth	£'000	772	-	772
plates	£'000	437		437
Metallic furniture	mı.	*	*	8.5
for hospital use, Quantity stated	£'000	*	*	454
etc. (except aseptic hospital furni-	£'000	*	*	200
ture)				

Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
	· · · · · · · · · · · · · · · · · · ·	and the contract		remainte la
Cookers and heaters of sheet iron, enam-		100 mm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		lang.
elled or not (including parts)  Fire extinguisher apparatus	£'000	385	27	476
T	Thous.	*	*	385 651
(except electric \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	£'000	*	*	115
lamps) Number not stated	£'000	*	*	150
Metallic closures for bottles, jars, etc. (including some of porcelain)†	£'000	*	*	1.070
Ventilators, pipes,				1,273
cowls and the like, Quantity stated	Th. tons	$\frac{3 \cdot 2}{207}$	0.4	3.6
of sheet iron and Quantity not stated		152	21	228 192
Other huilders' iron	Th. tons	*	*	THE SERVICE STREET
mongery, mainly   Quantity stated	£'000	*	*	4·8 206
of sheet metal ) Quantity not stated	£'000	*	*	447
	100			Company of the
Other goods mainly of sheet metal (including stampings, pressings,	The State State	resident (		
piercings, etc.):—		3 1000 7000 910		ess un like
[0	Th. tons	12.7	1.4	14.1
Of from and speed 3	£'000	448	24	472
Quantity not stated	£'000	1,353	-	1,353
Of brass Quantity stated {	£'000	107		107
Quantity not stated	£'000	*	*	399
Of other and un- Quantity stated {	Th. tons	3.8	0.4	4.2
angoified motels	£'000	285	19	304
Specified Metals Quantity not stated	£'000	873	24	897
Iron castings	£'000	*	*	44
Other and unclassified manufactures of	A Marian		Broth Bla	
iron and steel (including machinery	Supple Archue	lesis austa 1		
and parts)	,,	*	*	498
Manufactures (other than hollow-ware)	1000	*	*	100
of non-ferrous metals Manufactures of wood, including furni-	,,	*	To be a district	468
ture	,,	81	- ne	81
041		- Anne	one mais	and the
Other goods made	,,	152	KAR TANK	152
Waste products sold:—	.76	1000	in bilance	
Iron and steel scrap {	Th. tons	56.9	1.4	58.3
	£'000	132	3	135
Spelter	Th. tons £'000	3.7	0.3	4·0 53
Ryang gayan	Th. tons	3.57		(3.5
Brass scrap	£'000	53	the threat	<b>\( 53</b>
Other	£,000	38	2	40
THE RESERVE OF THE PARTY OF THE	Market State	1000		17
TOTAL VALUE OF GOODS MADE	£'000	26,636	619	27,255

Goods sold or added to stock and work done	Unit	England and Wales	Scotland	Great Britain
	And the second state of the	Amount	Amount	Amount received
Iron and steel structural work  Jobbing ironmongery and repair work  Work done for the trade :—  Galvanising  Japanning, lacquering, enamelling  Tinning  Chromium and other plating†  Other work done	£'000	* 196 416 224 * * 62	* 11 44 * *	110 207 460 224 19 236 66
TOTAL AMOUNT RECEIVED FOR WORK DONE	£'000	1,256	66	1,322
Total value of goods made and work done (Gross output)	£,000	27,895	682	28,577

<sup>\*</sup> Owing to the possible disclosure of information relating to individual firms, figures can only be given for Great Britain as a whole.

<sup>†</sup> So far as separately recorded. ‡ Less than £500.

# III. Employment

# A.—Numbers employed in week ended 18th October, 1930

Persons employed	M	Males		Females		Males and females	
1 elsons employed	Under 18	All ages	Under 18	All	Under 18	All ages	
Administration at a *	6,952 507	39,669 5,464	11,094 433	31,512 2,499	18,046 940	71,181 7,963	
TOTAL	7,459	45,133	11,527	34,011	18,986	79,144	
Administrative, etc.* .	336 8	1,314 166 1,480	200 19 219	594 76 670	536 27 563	1,908 242 2,150	
and the state of t		1,100		Service and	000	2,100	
A	7,288 515	40,983 5,630	11,294 452	32,106 2,575	18,582 967	73,089 8,205	
TOTAL	7,803	46,613	11,746	34,681	19,549	81,294	

<sup>\*</sup> Administrative, technical and clerical staff.

# B.—Operatives employed in one week in each month of 1930

Week	Male	es and fem			Males and females			
ended	England and Wales	Scotland	Great Britain	Week ended	England and Wales	Scotland	Great Britain	
Jan. 18 Feb. 15	73,299 73,444	1,927 1,974	75,226 75,418	July 19 Aug. 16	72,718 71,363	1,890 1,921	74,608 73,284	
Mar. 15 Apl. 12 May 17 June 21	73,330 74,001 73,876 73,519	2,021 2,001 1,968 1,909	75,351 76,002 75,844 75,428	Sept. 13 Oct. 18 Nov. 15 Dec. 13	71,351 71,181 71,065 70,468	1,895 1,908 1,849 1,865	73,246 73,089 72,914 72,333	
		or the 1			72,468	1,927	74,395	

### IV. Power

Particulars of prime movers, electric generators and electric motors

	Engla and W		Scotl	and	Great I	Britain
Power equipment	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle
PRIME MOVERS	H.P.	H.P.	H.P.	H.P.	H.P.	н.р.
Reciprocating steam engines Internal combustion engines :—	1,704	850	135	<del>-</del>	1,839	850
Gas Petrol, kerosene or	6,338	664	47	35	6,385	699
other light oils Heavy oils	86 2,740	10 223	50		86 2,790	10 223
TOTAL	10,868	1,747	232	35	11,100	1,782
TOTAL OF PRIME MOVERS INSTALLED	12,6	15	267		12,882	
ELECTRIC GENERATORS Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines Internal combustion	588	404	_	_	588	404
engines:— Gas Petrol, kerosene or other light	765	61			765	61
oils Heavy oils	915	$\begin{array}{c} 12 \\ 132 \end{array}$		<u> </u>	915	12 132
Total	2,268	609	_	_	2,268	609
TOTAL OF ELECTRIC GENERATORS INSTALLED	2,87	7			2,877	
ELECTRIC MOTORS Driven by Electricity gener-	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
ated in same works  Electricity generated in other	2,300	296	<u>-</u>	_	2,300	296
works under same ownership Purchased electricity	682 56,173	100 5,782	1,982		682 58,155	100 5,904
TOTAL	59,155	6,178	1,982	122	61,137	6,300
TOTAL OF ELECTRIC MOTORS INSTALLED	65,3	33	2,10	04	67,4	137

20870

E

# V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain	
Coal used for power*	Tons 11,149 278	Tons 502	Tons 11,651 278	
Electricity used for all purposes:— Generated in same works Generated in other works under same ownership Purchased	B.T.U. (Kwhrs.) '000 2,493 652 41,190	B.T.U. (Kwhrs.) '000 — 954	B.T.U. (Kwhrs.) '000 2,493 652 42,144	
Total—Electricity	44,335	954	45,289	

<sup>\*</sup> In addition, 134 tons of coal (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.