SMALL ARMS

THE SMALL ARMS TRADE (Private firms)

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 private firms that were engaged wholly or mainly in the manufacture of small arms and parts thereof. Production at Government Ordnance Factories is dealt with in a separate volume. Owing to the risk of disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland cannot be published. The summary table (I) and the tables showing details of power equipment (IV) and coal, coke and electricity used (V) are, therefore, not appended to this report, the whole of this information being available in the report itself.

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	485	624
Cost of materials used	,,	165	240
Paid for work given out to other firms	,,	10	10
Net output		310	374
Average number of persons employed (excluding outworkers) Net output per person employed (excluding out-	No.	1,366	2,100
workers) Power available :	£	227	180
Prime movers Electric motors driven by purchased electricity	H.P.	109 1,322	$204 \\ 2,385$
Number of returns	No.	27	33
Number of establishments	10	33	*

* Not available.

Deficiences 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 483, the corresponding figure for 1924 being 340. The value of the gross output of the small firms in 1924 was $\pounds 124,000$, and particulars of the kinds of goods made and work done included in this figure are given below :---

				£'000	
				30	
				2	
ll arms				11	
				50	
				19	
				12	
	TOTAL			124	
	 ll arms 	ll arms 	ll arms 	ll arms 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

In addition, 16 firms to which schedules were sent at the 1930 Census and about 45 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.

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 (excluding outworkers)	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	14	52	34	165	204
25-49	5	78	46	172	268
50 and over	8	355	230	1,029	224
TOTAL	27	485	310	1,366	227

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 :—

Агеа	Number of returns	Gross output	Net output	Average number of persons employed (excluding outworkers)	Net output per person employed
	No.	£'000	£'000	No.	£
r (1930	20	347	221	1,007	219
5 1924	24	417	266	1.588	168
1, 6 and 10 1930	7	138	89	359	249
1 and 10 1924	9	207	108	512	211
Total $\begin{cases} 1930\\ 1924 \end{cases}$	27	485	310	1,366	227
101AD 21924	33	624	374	2,100	180

* For particulars see page xviii.

Northern Ireland.—No production of small arms was recorded for Northern Ireland at either the 1930 or the 1924 Census.

Production

Principal products.—The following table shows the value and, where available, the quantity of complete small arms and parts and accessories of small arms made by private firms in 1930 and 1924 for sale :—

Kind of goods	193	1021		
Kind of goods	Value	Entries	1924	
	£'000	No.	£'000	
Sporting guns $\dots \dots \dots \dots \dots \dots \dots \dots \dots $ (Thousands)	178 (11.8)	25	276	
Sporting carbines and rifles (Thousands)	20^{+} (1·1)	11	(22.8)	
Other small arms, complete* Tubes, barrels and other parts and accessories of small arms	$\left.\right\} 154\ddagger$	20	194	
TOTAL-PRINCIPAL PRODUCTS	352	in anna an	470	

* Including military rifles and carbines, miniature rifles, air guns, revolvers, pistols, swords, bayonets, etc.

† Including £2,000 recorded on a schedule for another trade.

‡ Including £16,000 recorded on five schedules for other trades.

At both Censuses particulars of production were obtained in accordance with the classification of the Import and Export List (see page 192), but owing to the limited number of firms engaged in the manufacture of certain kinds of small arms and parts, the information recorded can only be published in the more general grouping shown above.

Volume of production in 1930 and 1924.—From the particulars available from the Census returns regarding the average selling values of the various classes of small arms and parts, it is estimated that the output returned for the year 1924, if re-valued on the basis of the averages recorded for 1930 in respect of similar goods, would amount to approximately £600,000. The volume of production in 1930 may therefore be stated as about 59 per cent. of that returned for 1924.

Exports and imports.—The following table shows the exports and retained imports of the various classes of small arms and parts thereof in 1930 and 1924 :—

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IRON AND STEEL TRADES

ALLE INSTALL BUILD	Exp	oorts	Retained	imports
Kind of goods	Quantity	Value	Quantity	Value
	Number	£'000	Number	£'000
small arms, complete :			22.004	90
Sporting guns $\dots \qquad \dots \begin{cases} 1930\\ 1924 \end{cases}$	12,936	118	22,894	$\frac{30}{39}$
1 00	28,777	180	22,808	3
Sporting carbines and 1930	2,013	25	1,875 1,776	5
rifles] 1924	5,694	53	1,770	*
Military rifles and carbines $\begin{cases} 1930\\ 1924 \end{cases}$	3,127	$\begin{array}{c} 19\\145\end{array}$	52	*
	40,781	140	153	1
Miniature and cadet rifles \$ 1930	332 726	2	997	1
and carbines 1924	4,588	11	54,433	14
Air guns and rifles of all \$ 1930	4,380	11	38,594	10
sorts $ 1924$ (1930)	5,254	14	3,671	2
Revolvers and pistols 1930	5,681	16	1.355	$\overline{2}$
				0
1 the and arms of (1950	3,128	6	1,801	2
other sorts, not firearms 1924	19,657	14	2,253	1
Cotal value — Small arms, ∫ 1930		194	diama	52
	-	421	and the stream of	58
complete $\dots \dots \lfloor 1924$				the state of the
Parts of small arms :	and the state of the	and the second	The state of the state	a second and
Tubes to be made into 1930	- : :=17	1941 0 	17,185	2
barrels of firearms \ 1924	212	*	2,064	*
Barrels without actions 1930	16,890	29	- 191†	*
fitted , 1924	9,364	15	53,991	7
Barrels with actions fitted $\begin{cases} 1930\\ 1924 \end{cases}$	190	*		*
LINI	2,303	6	485	*
Actions for small arms, \$1930	6	*	34	Carl Carl Carl
not fitted to barrels $\dots \ 1924$	12,867	3	-12,120†	<i>— 1</i> †
	Cwts.		Cwts.	9
(1930	391	23	478	$\frac{2}{4}$
Other narts of small arms?	872	33	300	4
Other parts of small arms { 1930 1924		The address of the super-		
Citra		52	Contraction of the second	4
Other parts of small arms 1924 Fotal value — Parts of 1930 small arms		52 57		4 10

* Less than £500.

† Re-exports in excess of imports.

As already explained, particulars of production cannot be published in the above detail. The table shows that the number of sporting guns and of sporting rifles and carbines exported was in excess of the number shown on page 191 as manufactured in the year. The deficiencies in the production particulars may affect comparisons to some extent, but the main reason for the differences is that the export figures probably include guns, rifles, etc. that were made in earlier years and were sold second-hand after reconditioning. The export figures may also include some military rifles, revolvers, etc. made at Government factories and sold to Dominion or Colonial Governments : as already mentioned, the particulars of production given in the present report are exclusive of small arms manufactured in Government factories. Repair work and work done for the trade.—The total amount recorded as received for repair work in 1930 was $\pm 30,000$, and a similar amount was recorded for 1924. In addition $\pm 4,000$ was returned for 1930 as received for work done for the trade.

Other products.—In addition to the output shown in the table of principal products on page 191, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Small Arms Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Kind of goods	1930	1924
Brow	Value	Value
Small arms ammunition (loaded cartridges) {		£'000 106*
Other goods made	72	30
Тотац	117	136

Employment and Wages

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

Persons employed	Males		Fem	ales	Total	
1.920 NOV 1.1951	Under 18	All ages	Under 18	All ages	Under 18	All ages
1930 Operatives (average for the year) Administrative, technical and clerical staff (as at 18th	134	995	44	181	178	1,176
clerical staff (as at 18th October)	13	125	17	65	30	190
TOTAL	147	1,120	61	246	208	1,366
1924 Operatives (average for the year) Administrative, technical and	267	1,716	60	132	327	1,848
clerical staff (as at 18th October)	19	174	20	78	39	252
TOTAL	286	1,890	80	210	366	2,100
Average number of out- out- out- number 1930 1924	.25(19)	A LAND AND AND AND AND AND AND AND AND AND		A CONTRACTOR OF A CONTRACT	26 19	

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

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 :---

Transformed entries each	in and and an an an an	1930		· 1924			
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total	
PRIME MOVERS Internal combustion	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
engines :— Gas	24		24	134		134	
Heavy oils	35	50	85	30	40	70	
TOTAL	59	50	109	164	40	204	
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
Driven by Heavy oil engines	30	40	70			-	
TOTAL	30	40	70	-		- Marin	
ELECTRIC MOTORS Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Electricity generated in same works Purchased electricity	97 1,180	20 142	117 1,322	1,525	860	2,385	
TOTAL	1,277	162	1,439	1,525	860	2,385	

Consumption of fuel

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

Kind of fuel used						Quantity			
6.16 A	1 101			1	W.S.T	T THE	A deal	Se all a	Tons
loal*									790
loke*	-			the state		NE.			341
ORC	A ANTE OF							and the second	B.T.U.
	1							Contraction of the second	(Kwhrs.)
Electric	city use	ed for a	all purp	oses :-	-1997.				,000
			works						62
A CONTRACTOR OF STATES	hased								1,091
		T	TAL]	Flootrio	ity				1,153

* The whole of the coal and coke shown was recorded as having been used for purposes other than for driving engines.

TABLES

Note.—Owing to the possible disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland cannot be given.

I. Summary of results (see page 189)

II. Production

Goods sold or added to stock and work	done		Quantity	Value
	an a	and the second	Thousands	£'000
Sporting guns			11.8	178
Sporting carbines and rifles			1.0	18
Other small arms, complete, including mili	tary r	ifles]		
and carbines, miniature rifles, airguns,	revol	vers	A REAL PROPERTY.	
and pistols, swords, cutlasses, etc		7	And	138
Tubes, barrels and other parts and acce	ssories	s of	and the second second	
small arms		J.	The Indentifier of	
Small arms ammunition (loaded cartridges)			5,679	45
Other goods made				72
T Water S 1 Market				C
TOTAL VALUE OF GOODS MADE				451
encies and multilement man		19	WI	Amount received
Repair work		k i ja se	N3082	30
Work done on commission or for the trade				4
		A BORGES	and the second	-
TOTAL VALUE OF WORK DONE				34
TOTAL VALUE OF GOODS MADE AND W	TODH 1	DOTT		
(GROSS OUTPUT)	VORK 1	DONE		107 (
(011055 001101)	•••			485

III. Employment

A.—NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930 (EXCLUDING OUTWORKERS)

Persons employed	Males		Females		Males and females	
(excluding outworkers)	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives Administrative, technical and clerical staff	135 13	998 125	44 17	182 65	179 30	1,180 190
Тотаl	148	1,123	61	247	209	1,370

IRON AND STEEL TRADES

Week ended		Males and females	Week ended	Males and females	
January 18		1,248	July 19	1,136	
February 15		1,264	August 16	1,059	
March 15		1,218	September 13	1,147	
April 12		1,223	October 18	1,180	
May 17		1,181	November 15	1,143	
June 21		1,157	December 13	1,150	
AVER	AGE	FOR THE 12 MONTH	S	1,176	

B.—Operatives (excluding outworkers) employed in one week in each month of 1930

C.--NUMBERS OF OUTWORKERS AT TWO SPECIFIED PERIODS IN 1930

	January	i services K	July		
Males	Females	Total	Males	Females	Total
251	3	254	267	3	270

IV. Power (see page 194)

V. Consumption of fuel (see page 194)

Services minimized and house

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