

THE MOTOR AND CYCLE TRADE

INTRODUCTORY

This trade comprises firms that were engaged wholly or mainly in the manufacture or repair of motor vehicles and cycles. It also covers the manufacture of parts and accessories with certain exceptions, the most important of which is rubber tyres, which are dealt with in the report on the Rubber Trade (*see* Part III). The report is presented in two parts, Part A relating to Manufacturing firms and Part B to the Repairing firms, the latter including garages, service stations and other establishments engaged principally in repair work, whether for customers or (as in the case of transport undertakings) on the owners' own vehicles.

The Import Duties Act Inquiry of 1934 covered firms engaged in manufacturing but not firms whose business was confined to repair work, whilst the Inquiry of 1933 was restricted to firms engaged in the manufacture of pedal cycles and parts and accessories therefor.

For this reason it is not possible to give in Part A comparable particulars in respect of the year 1933, while in Part B comparisons can only be made with the years 1930 and 1924.

In order to preserve comparability with the information furnished for 1935, the returns made for certain individual businesses for 1934 have been revised and reclassified and the figures previously published for that year have been adjusted accordingly.

The numbering of the tables throughout this report does not conform to that indicated in the Introductory Notes (*see* page xi).

A.—MANUFACTURING FIRMS

Table I A.—General summary

Particulars	1935	1934*	1930	1924
Value of products (Gross output) ...	£'000 136,120	£'000 117,304	£'000 109,046	£'000 86,341
Cost of materials, fuel and electricity used ...	80,216	69,104	63,395	44,361
Amount paid for work given out ...	451	351	637	1,429
Net output ...	55,453	47,849	45,014	40,551
Average number of persons employed...	No. 224,568	No. 201,244	No. 194,606	No. 169,288
Net output per person employed ...	£ 247	£ 238	£ 231	£ 240
Number of returns ...	743	} † {	809	913
Number of establishments ...	835		999	†

* See introductory paragraph above.

† Not available.

Table I B.—For particulars of firms employing not more than ten persons on the average in 1935 and 1930 *see* page 388.

Table II.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ...	227	1,654	816	3,968	205
25-49 ...	194	3,134	1,447	6,859	211
50-99 ...	144	4,158	1,982	10,206	194
100-199 ...	104	6,395	2,970	14,649	203
200-299 ...	35	3,845	1,703	8,356	204
300-399 ...	31	5,202	2,349	10,558	223
400-499 ...	18	3,874	1,564	8,159	192
500-749 ...	32	10,248	4,625	19,983	231
750-999 ...	14	5,075	2,279	12,234	186
1,000-1,499 ...	10	6,255	2,429	11,835	205
1,500 and over ...	26	86,280	33,289	117,761	283
TOTAL ...	835	136,120	55,453	224,568	247

Table III.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments†	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1... .. { 1935	255	30,870	13,237	46,578	284
.. { 1930	216	17,791	7,846	32,560	241
2... .. { 1935	64	4,875	2,240	8,562	262
.. { 1930	73	11,229	3,949	15,132	261
3... .. { 1935	37	2,049	968	4,614	210
.. { 1930	41	2,287	1,078	4,631	233
4... .. { 1935	13	184	80	552	145
.. { 1930	13	119	79	476	166
5... .. { 1935	311	64,839	27,351	124,135	220
.. { 1930	287	53,994	23,900	108,865	220
6... .. 1935	29	4,124	2,541	9,331	272
7... .. 1935	7	537	148	1,188	125
8... .. 1935	42	25,235	7,365	22,740	324
10... .. 1935	22	1,127	556	2,837	196
9 and 11 1935	10	129	54	363	150
6 to 11 { 1935	110	31,152	10,664	36,459	292
.. { 1930	128	21,763	7,399	29,036	255
14... .. { 1935	23	1,916	787	2,880	273
.. { 1930	23	1,565	593	2,862	207
15... .. 1935	6	123	59	380	155
16... .. 1935	3	22	14	85	160
17... .. 1935	6	50	31	167	188
15 to 17 { 1935	15	195	104	632	164
.. { 1930	21	191	108	660	163
Other areas ... { 1935	7	40	22	156	139
.. { 1930	7	107	62	384	162
TOTAL ... { 1935	835	136,120	55,453	224,568	247
.. { 1930	809	109,046	45,014	194,606	231

* For particulars *see* page xviii.

† Number of returns for 1930.

Table IV.—Sub-divisions of the industry

Group	Number of establishments*	Gross output	Value of characteristic products	Net output	Number of persons employed	Net output per person employed	
							No.
Manufacture of private motor cars and chassis (including taxi-cabs) ...	1935	53	66,526	51,385	22,084	75,567	292
Manufacture of commercial vehicles and chassis	1935	53	15,048	11,779	5,547	20,238	274
Manufacture of motor cycles and tricars ...	1935	21	3,332	1,737	1,371	7,767	176
Manufacture of complete motor vehicles, chassis, motor cycles and tricars ...	1935	127	84,906	73,596	29,002	103,572	280
	1930	108	71,960	50,704	25,863	99,943	259
Manufacture of bicycles and tri-cycles (not mechanically propelled) ...	1935	51	7,475	5,821	3,414	14,517	235
	1930	38	3,177	2,355	1,337	6,637	201
Manufacture of parts and accessories of motor cars, motor cycles and cycles :—							
Motor bodies and parts (including trailers, side-cars, etc.) ...	1935	303	13,994	11,044	6,849	32,466	211
	1930	330	10,468	6,888	5,224	26,251	199
Other parts and accessories ...	1935	354	29,745	24,595	16,188	74,013	219
	1930	333	23,441	18,101	12,590	61,775	204
TOTAL ...	1935	835	136,120	...	55,453	224,568	247
	1930	809	109,046	...	45,014	194,606	231

* Number of returns for 1930.

PRODUCTION

Table V A.—Output of principal products

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Complete motor cars (including petrol, steam and electrically driven vehicles) :—					
Private cars :—					
Not exceeding 8 h.p. ...	106,888	10,307	4	64,993	6,393
Over 8 h.p. and not exceeding 12 h.p. ...	150,663	21,801	22	117,333	18,024
Over 12 h.p. and not exceeding 16 h.p. ...	43,402	8,611	22	45,286	9,292
Over 16 h.p. and not exceeding 20 h.p. ...	14,861	4,352	15	11,450	3,519
Over 20 h.p. ...	10,941	3,184	20	7,094	2,480
Taxi-cabs ...	397	124	4	257*	62*
TOTAL—Private cars and taxi-cabs ...	327,152	48,379	...	246,413	39,770
Commercial vehicles (other than taxi-cabs, tricars and tractors†) :—					
Passenger vehicles with internal combustion engines, designed to seat :—					
Not more than 20 passengers	84	50	9	71	36
More than 20 and not more than 32 passengers ...	273	295	10	324	390
More than 32 and not more than 48 passengers ...	137	207	9	294	497
More than 48 and not more than 64 passengers ...	249	405	5		
Total — Passenger vehicles, commercial† ...	743	957	...	689	923
Goods vehicles with internal combustion engines :—					
Capacity not exceeding 15 cwts. ...	27,617	3,029	14	22,992	2,529
Capacity exceeding 15 cwts. and not exceeding 30 cwts. ...	6,818	1,224	10	7,483	1,315
Capacity exceeding 30 cwts. and not exceeding 50 cwts. ...	7,863	1,685	19	9,835	2,047
Capacity exceeding 50 cwts. ...	6,261	2,708	27	4,725	2,178
Total—Goods vehicles with internal combustion engines§ ...	48,559	8,646	...	45,035	8,069

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Complete motor cars (including petrol, steam and electrically driven vehicles):— <i>contd.</i>	No.	£'000	No.	No.	£'000
Other commercial vehicles driven by internal combustion engines (not taxi-cabs, tricar or tractors):—					
Ambulances	181	76	7	} 651	571
Other	194	174	9		
Unclassified	57	39	2		
Steam and electrically driven commercial vehicles ...	675	183	7	470	214
TOTAL—Commercial vehicles (other than taxi-cabs, tricar and tractors) ...	50,409	10,075	...	46,845	9,777
Complete chassis:—					
For private cars:—					
Not exceeding 8 h.p. ...	2,122	117	4	1,623	102
Over 8 h.p. and not exceeding 12 h.p.	8,528	610	16	4,663	428
Over 12 h.p. and not exceeding 16 h.p.	5,851	572	15	5,770	602
Over 16 h.p. and not exceeding 20 h.p.	612	135	10	766	196
Over 20 h.p.	3,588	1,600	14	3,496	1,784
Unclassified (including taxi-cabs)	1,463	244	2	944	148
TOTAL—Chassis for private vehicles	22,164	3,278	...	17,262	3,260
For commercial vehicles (other than taxi-cabs, tricar and tractors):—					
For passenger vehicles with internal combustion engines, designed to seat:—					
Not more than 20 passengers	637	196	7	945	229
More than 20 and not more than 32 passengers ...	1,612	1,005	13	917	662
More than 32 and not more than 48 passengers ...	972	807	8	} 1,335	1,139
More than 48 and not more than 64 passengers ...	1,232	1,099	7		
Total—Chassis for passenger vehicles†	4,453	3,107	...	3,197	2,030
For goods vehicles with internal combustion engines:—					
Capacity not exceeding 15 cwts.	4,249	388	9	3,326	283
Capacity exceeding 15 cwts. and not exceeding 30 cwts.	6,345	807	8	7,215	940
Capacity exceeding 30 cwts. and not exceeding 50 cwts.	12,952	2,174	14	16,590	2,752
Capacity exceeding 50 cwts.	3,320	3,847	23	9,346	3,073
Total—Chassis for goods vehicles§	36,866	7,216	...	36,477	7,048

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Complete chassis:— <i>contd.</i>	No.	£'000	No.	No.	£'000
For commercial vehicles (other than taxi-cabs, tricar and tractors):— <i>contd.</i>					
For other commercial vehicles driven by internal combustion engines (not taxi-cabs, tricar or tractors):—					
Ambulances	58	14	3	} 18	16
Other	41	25	...		
For steam and electrically driven commercial vehicles	115	21	3		
TOTAL—Chassis for commercial vehicles (other than taxi-cabs, tricar and tractors)	41,533	10,383	...	39,692	9,094
Motor bodies, complete:—					
For private cars and taxi-cabs	134,143	5,234	98	93,116	4,228
For commercial vehicles:—					
Passenger vehicles:—					
Single deck	3,374	1,584	81	} 3,910	1,749
Double deck	1,878	1,313	28		
Goods vehicles	50,262	1,941	280	32,229	955
TOTAL—Motor bodies	189,657	10,072	...	129,255	6,932
Trailers, complete (including living wagons, etc.)|| ... ..	5,267	576	31	{ 3,379	366
Engines for motor cars:—				...	87
Internal combustion:—					
Light oil:—					
Constructed solely for commercial use	33,239	813	19	} 89,164	2,842
Other	108,742	2,183	9		
Heavy oil	3,192	839	13		
Other ... ..	...	1	...		
Engines and gear boxes in one unit	¶	¶	...	13,650	304
Other parts and accessories for motor cars, sold separately:—					
Gear boxes	16,642	190	14	{ 16,098	202
Axles, including shafts§§ ...	180,204	1,080	21	...	70
Wheels and parts thereof, not included elsewhere, except tyres	Th. cwts. 687	1,217	20	107,626	773
Lamps (other than lighting and starting sets)	No. 495,286	204	12	677	1,174
Ignition apparatus other than magnetos** :—				No. 489,720	193
Spark plugs	Thous. 5,386	451	14	Thous. 4,986	412
Other ... ..	...	461	9	...	358
Radiators	259	1,004	31	204	884
Electric warning signals (horns, etc.) ... ..	...	209	8	...	137
Carburettors	455	359	13	325	240
Wind screens, wind shields, etc.	{ 287	326	22	} 282	301
...	...	86	5		
Parts of motor bodies... ..	...	2,603	102	...	1,943

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Other parts and accessories for motor cars, sold separately:— <i>contd.</i>	Thous.	£'000	No.	Thous.	£'000
Steering wheels|| ... ..	249	109	2	433	169
Gaskets and jointings|| ... ..	...	64	3		
Parts of engines|| ... ..	...	262	7		
Wind screen wipers|| ... ..	...	1,424	32		
Shock absorbers|| ... ..	...	116	9		
Other parts and accessories not specified above†† ... ..	...	361	5	...	11,218
Sheet metal work (e.g. bumpers, dust shields, bonnets, wings, petrol tanks, etc.)|| ... ..	...	10,500	...	...	...
Unclassified parts and accessories ... ..	...	2,426	66	...	1,711
TOTAL—Other parts and accessories for motor cars...	...	3,181	...	...	1,788
Motor cycles and tricars, complete:—	No.			No.	
Motor cycles	59,157	2,216	31	63,351	2,475
Tricars... ..	5,259	397	11		
Invalid chairs	274	11	3		
Engines for motor cycles and tricars	31,763	188	9	29,986	190
Other parts and accessories for motor cycles and tricars:—	Cwts.			Cwts.	
Wheels and parts thereof, not included elsewhere, except tyres	7,801	18	4	7,810	14
Side-cars ... ..	...	16	5	...	2
Gears boxes	9,657	105	10	8,351	104
Mudguards and chain covers|| ... ..	41,534	132	5	37,879	124
Parts of engines|| ... ..	133,040	19	3	53,149	7
Other parts and accessories (including saddles) not specified above†† ... ..	...	16	4	...	24
Unclassified ... ..	...	45	8	...	70
Total—Other parts and accessories for motor cycles	...	608	...	...	1,061
TOTAL—Motor vehicles and parts and accessories ...	...	676	...	...	246
	...	1,635	...	...	1,652
	...	117,679	...	...	99,174

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
Complete bicycles and tricycles (not mechanically propelled)...	Thous.	£'000	No.	Thous.	£'000
Parts and accessories for cycles (not mechanically propelled), sold separately:—	1,987	6,664	57	1,836	6,250
Frames	508	432	24	469	391
Handle bars	Cwts. 64,450			Cwts. 59,219	
Wheels and parts thereof, not included elsewhere, except tyres	36,351	203	5	33,221	203
Hubs ... ..	...	30	4	...	...
Saddles	144,801	363	13	158,374	362
Mudguards ... ..	...	96	4	...	...
Chain wheels, cranks and pedals||	Thous. 3,872	685	14	Thous. 4,777	669
Free wheels|| ... ..	2,733	399	10	2,669	380
Gear cases|| ... ..	...	46	1	...	104
Other parts and accessories, not specified above††	4,271	149	9	4,626	157
Unclassified	7,615	175	12	5,722	158
TOTAL — Bicycles, tricycles and parts and accessories	...	392	4	...	414
Work done for the trade (machining, grinding, enamelling, etc.)	...	153	6	...	151
	...	63	4	...	65
	326	28	2	371	20
TOTAL — PRINCIPAL PRODUCTS ... ..	...	1,458	...	...	1,372
	...	182	...	...	127
	...	11,518	...	...	10,823
	...	420††	...	...	270††
	...	129,617	...	...	110,267

* Including unclassified cars.

† For tractors *see* the Mechanical Engineering Trade (page 229).

‡ Of the output of passenger vehicles and chassis, 3,118 in 1935 and 1,144 in 1934 were fitted with heavy oil engines.

§ Of the output of goods vehicles and chassis with internal combustion engines, 2,059 in 1935 and 1,692 in 1934 were fitted with heavy oil engines.

|| So far as recorded separately.

¶ Included above.

§§ Weight recorded as 10,998 tons for 1935 and 8,785 tons for 1934.

** Including sparking plugs for motor cycles. For magnetos *see* the Electrical Engineering Trade (page 306).

†† Excluding steel transmission chains, and ball and roller bearings, for which *see* the Chain, Nail, Screw, etc., Trades (page 117), and the Mechanical Engineering Trade (page 238), respectively.

‡‡ Amount received.

The figures shown in the preceding table include the following output recorded by motor vehicle and cycle repairing firms (see Table XVIII, page 391) and by firms whose returns were made on schedules for other trades. These firms' returns are not included in Table I A.

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Complete motor cars (including petrol, steam and electrically driven vehicles) :—					
Private motor cars and taxi-cabs	88	29	3	75	12
Commercial vehicles (other than taxi-cabs, tricars and tractors) :—					
Vehicles with internal combustion engines	25	12	5	81	40
Steam and electrically driven vehicles	237	57	3	134	26
Motor bodies, complete :—					
For private cars and taxi-cabs...	341	20	13	215	21
For commercial vehicles :—					
Passenger vehicles :—					
Single deck	522	262	14	745	411
Double deck	946	662	8		
Goods vehicles	3,431	207	79	1,225	43
Trailers, complete (including living wagons, etc.)	1,236	110	8	152	5
Engines for motor cars :—					
Internal combustion :—					
Light oil	64	6	2	1,702	491
Heavy oil	2,094	547	4		
Other parts and accessories for motor cars, sold separately :—					
Axles	737	5	1	—	—
Wheels and parts thereof	108	151	2	100	156
Ignition apparatus :—					
Sparking plugs	69	6	1	88	8
Other	5	11	2	—	—
Radiators	5	18	2	5	24
Electric warning signals (horns, etc.) ... ..	...	2	2	...	26
Wind screens, wind shields, etc.	25	24	3	16	23
Parts of motor bodies ... ..	...	119	21	...	49
Parts of engines... ..	...	145	14	...	106
Other parts and accessories not specified above ... ..	...	364	...	...	264
Sheet metal work (e.g. bumpers, dust shields, bonnets, wings, petrol tanks, etc.) ... ..	...	84	17	...	23
Unclassified parts and accessories ... ..	...	475	...	...	424
Complete tricars	107	10	1	132	11
Engines for motor cycles and tri-cars	1,085	11	2	712	6
Other parts and accessories for motor cycles and tricars ... ..	...	35	...	...	81

Kind of output	1935			1934	
	Quantity	Value	Entries	Quantity	Value
	Thous.	£'000	No.	Thous.	£'000
Complete bicycles and tricycles (not mechanically propelled) ...	3	8	1	2	6
Parts and accessories for cycles (not mechanically propelled) sold separately :—					
Wheels and parts not included elsewhere, except tyres ...	39	4	1	—	—
Saddles ... ..	...	46	1	...	62
Other parts and accessories not specified above ... ..	...	27	10	...	14
Unclassified ... ..	...	12	2	...	65
Work done for the trade ... ..	...	20*	4	—	—
TOTAL ... ..	...	3,489	...	...	2,483

* Amount received.

Table V B.—Output for sale of certain principal products, 1924-1935

Kind of output	1924	1930	1934	1935
Complete motor cars (including petrol, steam and electrically driven vehicles) :—				
Private cars and taxi-cabs {	No.	108,311	160,321	246,413
Commercial vehicles {	£'000	28,616	32,859	39,770
Commercial vehicles (other than taxi-cabs, tricars and tractors) {	No.	25,062	40,253	46,845
Complete chassis :—	£'000	6,005	10,697	9,777
For private cars ... {	No.	9,189	11,826	17,262
For commercial vehicles {	£'000	3,656	3,010	3,260
Complete motor cycles and tricars ... {	No.	13,262	28,519	39,692
Engines :—	£'000	4,456	10,676	9,094
For motor cars ... {	No.	120,092	125,030	63,351
For motor cycles and tri-cars ... {	£'000	5,868	5,161	2,475
Complete bicycles and tricycles (not mechanically propelled)* ... {	No.	686	882	1,836
All other principal products	£'000	3,763	3,422	6,250
TOTAL — PRINCIPAL PRODUCTS ...	£'000	26,965	33,647	36,305
TOTAL — PRINCIPAL PRODUCTS ...	£'000	81,834	102,908	110,267
TOTAL — PRINCIPAL PRODUCTS ...	£'000	106,427	98,269	102,814
TOTAL — PRINCIPAL PRODUCTS ...	£'000	2,505	2,940	3,146
TOTAL — PRINCIPAL PRODUCTS ...	£'000	496	59,466	29,986
TOTAL — PRINCIPAL PRODUCTS ...	£'000	188	190	188
TOTAL — PRINCIPAL PRODUCTS ...	£'000	1,987	1,836	1,987
TOTAL — PRINCIPAL PRODUCTS ...	£'000	6,664	6,250	6,664
TOTAL — PRINCIPAL PRODUCTS ...	£'000	44,191	36,305	44,191
TOTAL — PRINCIPAL PRODUCTS ...	£'000	81,834	102,908	110,267
TOTAL — PRINCIPAL PRODUCTS ...	£'000	106,427	98,269	102,814
TOTAL — PRINCIPAL PRODUCTS ...	£'000	2,505	2,940	3,146
TOTAL — PRINCIPAL PRODUCTS ...	£'000	496	59,466	29,986
TOTAL — PRINCIPAL PRODUCTS ...	£'000	188	190	188
TOTAL — PRINCIPAL PRODUCTS ...	£'000	1,987	1,836	1,987
TOTAL — PRINCIPAL PRODUCTS ...	£'000	6,664	6,250	6,664
TOTAL — PRINCIPAL PRODUCTS ...	£'000	44,191	36,305	44,191

* Output in 1933 was recorded as 1,418,000 complete cycles and tricycles, valued at £4,617,000 (see introductory paragraph, page 366).

Table VI.—Average values of goods produced, exported and imported

Kind of goods	Production (at factory)		Exports (f.o.b.)	Imports (c.i.f.)			
	Average value	1935 as a percentage of 1934		Average value	Average value		
	1935	1934	1935	1934	1935	1934	
Motor cars, complete :—	£ each	£ each	Per cent.	£ each	£ each	£ each	£ each
Private cars and taxi-cabs	147.9	161.4	91.6	124.8	139.3	159.2	155.1
Commercial vehicles (other than taxi-cabs, tractors and tractors)	198.0	211.2	93.8	350.6	276.0	196.8	200.8
Chassis, complete :—							
For private cars ...	147.9	188.8	78.3	84.8	90.7	107.0	121.5
For commercial vehicles	250.0	229.1	109.1	155.1	147.2	125.8	116.0
Motor bodies complete :—							
For private cars and taxi-cabs	39.0	45.4	86.0				
For commercial vehicles :—							
Passenger vehicles :—				*	*	*	*
Single deck ...	469.5	447.3	123.3	*	*	*	*
Double deck ...	699.0						
Goods vehicles ...	38.6	29.6	130.3				
Trailers, complete (including living wagons, etc.)	109.3	108.5	100.8				
Parts and accessories for motor cars :—							
Engines† :—							
Constructed solely for commercial use :—							
Light oil	24.5	47.8	94.4	192.2	114.9	33.4	35.7
Heavy oil	266.4						
Other :—							
Light oil	20.1	23.6	85.4	17.9	16.8	18.9	28.9
Heavy oil	121.8						
Gear boxes	11.4	12.6	90.9	*	*	*	*
	£ per ton	£ per ton		£ per ton	£ per ton	£ per ton	£ per ton
Axles‡	98.2	88.0	111.6	142.8	100.3	67.9	69.7
Wheels and parts thereof (except tyres) ...	35.4	34.7	102.2				
Lamps (other than lighting and starting sets)	8.25	7.88	104.7				
Sparking plugs§ ...	1.67	1.65	101.2				
	£ each	£ each		*	*	*	*
Radiators	3.88	4.33	89.5				
	s. each	s. each					
Carburettors	15.79	14.78	106.8				
Wind screens, wind shields, etc. ...	22.73	21.34	106.5				
Steering wheels ...	8.76	7.79	112.6				
Motor cycles and tractors complete (including invalid chairs) ...	40.56	39.07	103.8	38.9	39.4	...	...

Kind of goods	Production (at factory)		Exports (f.o.b.)	Imports (c.i.f.)			
	Average value	1935 as a percentage of 1934		Average value	Average value		
	1935	1934	1935	1934	1935	1934	
Parts and accessories for motor cycles and tractors :—	£ each	£ each	Per cent.	£ each	£ each	£ each	£ each
Engines	5.91	6.36	92.9	10.4	9.54	...	...
	£ per cwt.	£ per cwt.					
Wheels and parts thereof (except tyres) ...	2.30	1.82	126.3				
	£ each	£ each					
Side cars	10.86	12.50	86.9				
Gears and gear casings (including complete gear boxes) ...	3.18	3.28	97.1	*	*	*	*
	s. each	s. each					
Carburettors	12.49	12.25	102.0				
Mudguards and chain covers	2.92	2.65	110.4				
Complete bicycles and tricycles (not mechanically propelled) ...	3.35	3.40	98.5	2.79	2.77	1.28	1.59
	£ per cwt.	£ per cwt.		£ per cwt.	£ per cwt.	£ per cwt.	£ per cwt.
Parts and accessories for bicycles and tricycles:							
Frames|| ... ..	6.70	6.59	101.6	5.46	5.48	2.04	2.11
Handle bars	5.57	6.12	91.1	6.38	6.24	...	...
Wheels and parts thereof, except tyres¶ ...	2.51	2.29	109.7	5.18	4.64	3.56	3.42
	s. each	s. each					
Hubs	3.54	2.80	126.3	*	*	*	*
Saddles	2.92	2.85	102.6	3.62	3.51	...	...
	d. each	d. each					
Pumps	8.39	8.15	103.0				
Mudguards	5.50	6.60	83.3				
	s. each	s. each					
Gear cases	3.87	3.53	109.6	*	*	*	*
	d. each	d. each					
Reflectors	5.70	6.21	91.8				

* Not recorded separately.

† Including engines and gear boxes in one unit.

‡ The production figures include axle shafts.

§ Including sparking plugs for motor cycles.

|| The overseas trade figures include frame tubes.

¶ Described in the overseas trade returns as "wheels (with or without fitted tyres) and unenumerated parts of wheels".

Table VI.—Average values of goods produced, exported and imported (continued)

Exports and imports of complete motor vehicles and of chassis are not recorded in greater detail than that shown in the preceding table. The average values of the various classes of vehicles, etc., produced in the United Kingdom in each year were as follows:—

Kind of goods	Average value		1935 as a percentage of 1934
	1935	1934	
	£ each	£ each	Per cent.
Motor cars complete:—			
Private cars:—			
Not exceeding 8 h.p.	96.4	98.4	98.0
Over 8 h.p. and not exceeding 12 h.p. ...	144.7	153.6	94.2
Over 12 h.p. and not exceeding 16 h.p. ...	198.4	205.2	96.7
Over 16 h.p. and not exceeding 20 h.p. ...	292.8	307.3	95.3
Over 20 h.p.	291.0	349.6	83.2
Taxi-cabs	313.4	270.0	86.2
Commercial vehicles (other than taxi-cabs, tri-cars and tractors):—			
Passenger vehicles with internal combustion engines, designed to seat:—			
Not more than 20 passengers	597.7	508.7	117.5
More than 20 and not more than 32 ...	1,080.3	1,203.0	89.8
More than 32 and not more than 48 ...	1,506.9	1,688.7	93.8
More than 48 and not more than 64 ...	1,626.7		
Total—Passenger vehicles, commercial...	1,287.5	1,338.4	96.2
Goods vehicles with internal combustion engines:—			
Capacity not exceeding 15 cwts.	109.6	110.0	99.6
Capacity exceeding 15 cwts. and not exceeding 30 cwts.	179.6	175.8	102.1
Capacity exceeding 30 cwts. and not exceeding 50 cwts.	214.3	208.2	103.0
Capacity exceeding 50 cwts.	432.5	461.0	93.8
Total—Goods vehicles with internal combustion engines...	178.0	179.2	99.3
Other commercial vehicles driven by internal combustion engines (not taxi-cabs, tri-cars or tractors):—			
Ambulances	419.0	877.3	76.2
Other	895.4		
Steam and electrically driven commercial vehicles	271.9	455.2	59.7
Complete chassis:—			
For private cars:—			
Not exceeding 8 h.p.	54.9	62.9	87.3
Over 8 h.p. and not exceeding 12 h.p. ...	71.5	91.8	77.9
Over 12 h.p. and not exceeding 16 h.p. ...	97.8	104.3	93.8
Over 16 h.p. and not exceeding 20 h.p. ...	220.2	256.2	86.0
Over 20 h.p.	446.0	510.2	87.4

Kind of goods	Average value		1935 as a percentage of 1934
	1935	1934	
	£ each	£ each	Per cent.
Complete chassis:— <i>contd.</i>			
For commercial vehicles (other than taxi-cabs, tricars and tractors):—			
For passenger vehicles with internal combustion engines, designed to seat:—			
Not more than 20 passengers	307.3	241.9	127.0
More than 20 and not more than 32 passengers	623.5	722.5	86.3
More than 32 and not more than 48 passengers	830.4	853.2	101.4
More than 48 and not more than 64 passengers	892.4		
Total—Chassis for passenger vehicles	697.8	635.0	109.9
For goods vehicles with internal combustion engines:—			
Capacity not exceeding 15 cwts.	91.2	85.0	107.4
Capacity exceeding 15 cwts. and not exceeding 30 cwts.	127.2	130.3	97.6
Capacity exceeding 30 cwts. and not exceeding 50 cwts.	167.9	165.9	101.2
Capacity exceeding 50 cwts.	288.8	328.8	87.9
Total—Chassis for goods vehicles ...	195.7	193.2	101.3
For other commercial vehicles driven by internal combustion engines:—			
Ambulances	248.1	550.4	71.3
Other	596.9		

Table VII.—Volume of Production, 1924-1935

Kind of output	Total production			Production index (1935=100)		
	1935 as returned	1934		1924	1930	1934
		As returned	At 1935 average values			
	£'000	£'000	£'000	Per cent.	Per cent.	Per cent.
Complete motor cars (including petrol, steam and electrically driven vehicles):—						
Private cars:—						
Not exceeding 8 h.p. ...	10,307	6,393	6,267	} 38	45	61
Over 8 h.p. and not exceeding 12 h.p. ...	21,801	18,024	16,979		24	78
Over 12 h.p. and not exceeding 16 h.p. ...	8,611	9,292	8,985		128	104
Over 16 h.p. and not exceeding 20 h.p. ...	4,352	3,519	3,353		77	77
Over 20 h.p. ...	3,184	2,480	2,089		57	66
Taxi-cabs ...	124	62	72			
TOTAL—Private cars and taxi-cabs ...	48,379	39,770	37,745	38	55	78
Commercial vehicles (other than taxi-cabs, tricars and tractors):—						
Passenger vehicles with internal combustion engines	957	923	861	} 47	185	90
Goods vehicles with internal combustion engines ...	8,935	8,640	8,451		64	95
Steam and electrically driven vehicles ...	183	214	218		165	119
TOTAL—Commercial vehicles (other than taxi-cabs, tricars and tractors) ...	10,075	9,777	9,530	47	77	95
Complete chassis:—						
For private cars ...	3,278	3,260	3,003	51	66	92
For commercial vehicles (other than taxi-cabs, tricars and tractors):—						
Passenger vehicles with internal combustion engines	3,107	2,030	2,017	} 26	127	65
Goods vehicles with internal combustion and other engines ...	7,276	7,064	6,720		41	92
TOTAL—Chassis for commercial vehicles (other than taxi-cabs, tricars and tractors) ...	10,383	9,094	8,737	26	67	84

Kind of output	Total production			Production index (1935=100)		
	1935 as returned	1934		1924	1930	1934
		As returned	At 1935 average values			
	£'000	£'000	£'000	Per cent.	Per cent.	Per cent.
Trailers, complete (including living wagons) ...	576	453	456	...	45	79
Complete motor cycles and tri-cars ...	2,624	2,475	2,569	184	192	98
Complete bicycles and tricycles (not mechanically propelled)*	6,664	6,250	6,156	35	44	92
Parts and accessories:—						
Engines for motor vehicles ...	4,024	3,336	2,991	52	77	74
For motor cars:—						
Motor bodies, complete ...	10,072	6,932	7,036	24	34	70
Other parts and accessories (except engines) ...	26,633	22,425	21,393	35	57	80
For motor cycles (other than engines) ...	1,635	1,652	1,663	110	150	102
For bicycles and tricycles (not mechanically propelled)* ...	4,854	4,573	4,804	49	51	99
Work done for the trade ...	420	270	265	20	57	63
Total ...	129,617	110,267	106,348	41	61	82
Addition on account of work in progress† ...	249	1,792	1,759	...	...	...
TOTAL ...	129,866	112,059	108,107	42	61	83

* The production index for 1933 for complete bicycles and tricycles was 71 per cent., and for cycle parts and accessories 66 per cent.

† See page 384.

Table VIII.—Production in relation to Exports and Imports

Kind of goods	Production		Proportion of production exported	Retained imports	Available for use in the United Kingdom		Share of home market held by British goods
	No.	Exports			No.	No.		Per cent.
Motor cars, complete :—							
Private cars (including cabs), new ...	1935	327,152	43,914	13.4	12,257	295,495	95.9
	1934	244,754	34,851	14.2	10,117	220,020	95.4
Commercial vehicles other than tractors, new ...	1935	50,409	2,253	4.5	61	48,217	99.9
	1934	46,845	2,365	5.0	63	44,543	99.9
Chassis, complete* :—							
For private cars and cabs ...	1935	22,164	10,346	46.7	1,212	13,030	90.7
	1934	17,262	9,026	52.3	696	8,932	92.2
For commercial vehicles ...	1935	41,533	11,380	27.4	1,776	31,929	94.4
	1934	39,692	11,372	28.7	1,543	29,863	94.8
Motor cycles and tricars, complete	1935	64,690	18,044	27.9	29	46,675	99.9
	1934	63,351	16,475	26.0	14	46,890	100.0
Engines for motor cars ...	1935	145,173	9,578	6.6	1,774	137,369	98.7
	1934	102,814	14,077	13.6	4,040	92,777	95.6
Engines for motor cycles and tricars ...	1935	31,763	2,030	6.4	5	29,738	100.0
	1934	29,986	3,770	12.6	3	26,219	100.0
Complete bicycles and tricycles ...	1935	1,987	377	19.0	0	1,610	100.0
	1934	1,836	282	15.4	0	1,554	100.0
		Thous.	Thous.		Thous.	Thous.	
		Value (at factory)	Value (f.o.b.)		Value (c.i.f.)		
		£'000	£'000		£'000		
Other parts and accessories for motor cars :—							
Wheels and parts thereof, except tyres†	1935	1,217	74	...	4	...	...
	1934	1,174	180	...	4	...	...
Axles‡ ...	1935	1,080	22	...	3	...	...
	1934	773	59	...	0	...	...
Other parts and accessories§||...	1935	24,336	2,328	...	1,408	...	...
	1934	20,478	2,371	...	906	...	...
Other parts and accessories for motor cycles and tricars :—							
Wheels and parts thereof, except tyres†	1935	34	3	...	0	...	...
	1934	16	6	...	—	...	...
Other parts and accessories§ ...	1935	1,601	268	...	2	...	...
	1934	1,636	376	...	1	...	...
TOTAL—Other parts and accessories for motor cars and motor cycles	1935	28,268	2,695	...	1,417	...	...
	1934	24,077	2,992	...	911	...	...

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British goods
					No.	Per cent.
Parts and accessories for cycles :—	£'000	£'000	Per cent.	£'000	No.	Per cent.
Frames¶	1935	432	242	...	11	...
	1934	391	241	...	5	...
Wheels and parts thereof, except tyres†	1935	1,297**	147	...	24	...
	1934	1,182**	147	...	11	...
Handle bars ...	1935	233	37	...	1	...
	1934	203	34	...	0	...
Other ...	1935	2,892	1,407	...	154	...
	1934	2,797	1,242	...	129	...
TOTAL—Parts and accessories for cycles	1935	4,854	1,833	...	190	...
	1934	4,573	1,664	...	145	...

* In addition, in 1935, the exports of chassis for motor cars, etc., without engines (with or without fitted tyres) numbered 307 and the retained imports numbered 13. In 1934 the exports numbered 294 and the retained imports numbered 71.

† Described in the oversea trade returns as "wheels (with or without fitted tyres) and unenumerated parts of wheels."

‡ The production figures include axle shafts.

§ Excluding tyres, transmission chains, ball and roller bearings, magnetos and electric bulbs.

|| Including sparking plugs for motor cycles.

¶ The oversea trade figures include frame tubes.

** Including hubs and free wheels.

Table IX.—Other output of the Motor and Cycle Trade (Manufacturing)

The value of the gross output of the firms whose returns were made on schedules for the Motor and Cycle Trade, and which were not primarily engaged in repair work, was £136,120,000 in 1935 and £117,304,000 in 1934, of which £126,128,000 in 1935 and £107,784,000 in 1934 consisted of products included in Table V A.

Particulars of the remaining items are shown below:—

Kind of output	1935		1934	
	£'000		£'000	
Aircraft engines and parts	57		33	
Other parts of aircraft	379		320	
Ball bearings, roller bearings, etc., and steel transmission chains	391		387	
Wireless apparatus	55		54	
Electrical machinery and apparatus and parts thereof (including magnetos, dynamos, etc.)	224		250	
Tractors and parts thereof	1,305		782	
Trams and trackless trolley vehicles and parts thereof	360		281	
Other vehicles and parts thereof	146		92	
Other engineering products	641		752	
Other manufactures of iron and steel	528		376	
Scientific instruments	444		420	
Other manufactures:—				
Mainly of non-ferrous metals	144		147	
Mainly of wood	61		50	
Mainly of leather	28		53	
Other goods made and electricity sold	418		443	
Total—Other goods made	5,181		4,440	
Scrap metal sold:—				
Iron and steel	1		10	
Other	38		13	
	Amount received		Amount received	
Repair work:—				
To motor vehicles	4,027		3,023	
To cycles... ..	59		29	
To other vehicles (including aircraft)... ..	117		39	
Other repair and jobbing work	320		174	
Total—Repair work	4,523		3,265	
TOTAL	9,743		7,728	

The differences between the aggregate of the figures shown in the above tables and the gross output (Table I) are due to the balance of work in progress at the beginning and the end of the year, as follows:—

	1935	1934
	£'000	£'000
Work in progress at the end of the year	10,945	10,613
Work in progress at the beginning of the year	10,696	8,821
Balance	(+) 249	(+) 1,792

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	1935		1934	
	Quantity	Cost	Quantity	Cost
Materials used:—	No.	£'000	No.	£'000
Motor bodies:—				
For private cars and taxi-cabs	99,600	4,199	96,661	3,379
For commercial vehicles	28,052	1,076		
Chassis:—				
For private cars and taxi-cabs	11,010	819	}	}
For commercial vehicles	6,365	1,730		
Complete engines:—				
For motor cars	105,949	2,425	}	}
For motor cycles	9,817	76		
Iron and steel:—	Th. tons			
Sheets... ..	210.3	3,228	}	}
Castings, forgings, pressings	114.2	4,826		
Tubes... ..	14.7	603	}	}
Other semi-manufactures of iron and steel	61.1	2,510		
Copper in all forms	11.6	717	}	}
Aluminium in all forms	5.2	651		
Lead in all forms	7.5	124	}	}
Unclassified materials... ..	...	1,599		
Fuel and electricity used for all purposes:—				
Coal	221.0	216	}	}
Coke	58.2	83		
Heavy fuel oil	5,631	109	}	}
Purchased electricity*... ..	303,410	826		
All other purchased materials and fuel... ..	...	51,777		
TOTAL ... ..	...	80,216	...	69,104

* Including electricity generated in other works under the same ownership.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

Kind of fuel	1935	1930
	Coal	Th. tons 287.8*	Th. tons 231.2
Coke	68.9*	54.4
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Electricity:—		
Generated in same works	73,856	29,113
Generated in other works under same ownership	447	—
Purchased	302,963	180,416
Total electricity consumed	377,266	209,529

* Estimated.

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
	Operatives (average for the year)	17,236	164,607	6,334	30,353	23,570	194,960
Administrative, technical and clerical staff*	15,341	147,161	5,926	28,436	21,267	175,597
	1935	1934	1935	1934	1935	1934
	2,007	1,354	19,603	16,921	4,165	2,924
	1935	1934	1935	1934	1935	1934
TOTAL	19,243	16,695	184,210	164,082	8,492	7,496
	1935	1934	1935	1934	1935	1934
	16,695	164,082	7,496	37,162	24,191	201,244

* As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†		
	1934	1935	1930	1934	1935
January	68,047	82,242	89.9	84.9	96.8
February	70,265	84,553	90.8	87.7	99.6
March	72,249	84,694	90.7	90.2	99.7
April	73,889	86,042	92.2	92.2	101.3
May	75,064	84,637	92.9	93.7	99.7
June	74,080	82,250	86.2	92.5	96.8
July	70,907	82,998	82.6	88.5	97.7
August	69,924	82,852	78.8	87.3	97.6
September	70,844	84,550	81.4	88.4	99.6
October	71,693	85,286	81.9	89.5	100.4
November... ..	73,686	89,621	81.4	92.0	105.5
December	75,419	89,384	82.8	94.1	105.2
Average for the twelve months	72,172	84,926	86.0	90.1	100.0
Proportion of total operatives represented	41.10	43.56	...	...	...

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XI C.—Average numbers employed, 1924-1935

Year	Operatives	Administrative, technical and clerical staff	Total
1924	148,074	21,214	169,288
1930	167,297	27,309	194,606
1934	175,597	25,647	201,244
1935	194,960	29,608	224,568

WAGES

Table XII.—For the statement of wages paid by firms making returns of wages in 1935 and 1930 see page 394.

B.—REPAIRING FIRMS

Table XIII A.—General summary

Particulars	1935	1930	1924
Value of work done (Gross output)	£'000	£'000	£'000
Cost of materials, fuel and electricity used	14,906	13,860	7,352
Amount paid for work given out	5,725	5,496	3,032
Net output	256	279	166
Average number of persons employed	8,925	8,085	4,154
Net output per person employed	No.	No.	No.
Number of returns	55,180	46,406	23,420
Number of establishments	£	£	£
	162	174	177
	No.	No.	No.
	1,310	1,144	795
	1,706	1,670	*

* Not available.

Table XIII B.—Firms employing not more than ten persons on the average

As no details of output were recorded by firms employing not more than ten persons on the average in 1935 and 1930 it is not possible to give separate particulars of the number of persons employed by the manufacturing and the repairing firms, respectively; the majority of the small firms were, however, mainly engaged in repair work. The particulars given in the following table relate to the Motor and Cycle Trade as a whole.

Particulars	1935	1930*	1924
Number of returns received	No.	No.	No.
Average number of persons employed:—			
Males	14,372	13,953	6,100
Females	58,514	53,602	16,414
TOTAL	4,297	3,667	1,386
Number of firms not making returns	62,811	57,269	17,800
	49	1,349	4,300

* Great Britain only.

In 1924 the amount received in respect of repair work to motor vehicles and cycles carried out by the small firms making returns was 26.6 per cent. of the total, but their output of vehicles, parts and other manufactures formed little more than one per cent. of the total.

Table XIV.—Size of establishments in 1935

Size of establishment (average number employed)	Number of establishments	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24	1,079	4,475	2,733	17,137	159
25-49	426	3,880	2,336	14,126	165
50-99	120	2,099	1,234	8,081	153
100-199	62	2,447	1,476	8,538	173
200-299	13	795	475	2,989	159
300 and over	6	1,210	671	4,309	156
TOTAL	1,706	14,906	8,925	55,180	162

Table XV.—Particulars of output, etc., in each of the principal areas of the United Kingdom

Area*	Number of establishments†	Gross output	Net output	Number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
1... ..	1935 458	6,320	3,752	20,201	186
	1930 206	6,693	3,820	20,006	191
2... ..	1935 170	1,234	728	4,762	153
	1930 103	1,046	632	3,605	175
3... ..	1935 115	916	546	3,471	157
	1930 66	439	257	1,604	160
4... ..	1935 62	427	266	1,939	137
	1930 46	576	331	1,836	180
5... ..	1935 98	704	436	2,876	151
	1930 68	401	237	1,467	161
6... ..	1935 83	534	317	2,120	149
7... ..	1935 37	227	147	1,033	142
8... ..	1935 201	1,349	860	5,165	167
9... ..	1935 103	545	334	2,442	137
10... ..	1935 96	630	390	2,545	153
11... ..	1935 18	84	48	383	125
6 to 11	1935 538	3,369	2,096	13,688	153
	1930 380	3,134	1,888	12,016	157
12... ..	1935 47	250	157	1,147	137
	1930 24	161	104	698	148
13 and 18	1935 54	355	183	1,436	127
	1930 54	352	192	1,619	118
14... ..	1935 62	537	323	1,991	162
	1930 41	401	241	1,383	174
15... ..	1935 52	554	299	2,475	121
16... ..	1935 21	94	54	474	115
17... ..	1935 29	146	85	720	119
15 to 17	1935 102	794	438	3,669	120
	1930 66	657	383	2,172	176
TOTAL	1935 1,706	14,906	8,925	55,180	162
	1930 1,144	13,860	8,085	46,406	174

* For particulars see page xviii.

† Number of returns for 1930.

PRODUCTION

Table XVI.—Value of repair work done

Repair work	1935		1930
	Amount received	Entries	Amount received
To motor vehicles, including motor cycles ...	£'000 18,225	No. 1,752	£'000 16,331
To other cycles ...	84	54	83
Unclassified ...	—	—	581
TOTAL ...	18,309	...	16,995

The figures shown in the preceding table include the following particulars of repair work carried out by firms manufacturing motor vehicles and cycles (see Table IX, page 384) and by firms whose returns were made on schedules for other trades. These firms' returns are not included in Table XIII A.

Repair work	1935		1930
	Amount received	Entries	Amount received
To motor vehicles, including motor cycles ...	£'000 4,218	No. 453	£'000 4,385
To other cycles ...	59	22	69
Unclassified ...	—	—	66
TOTAL ...	4,277	...	4,520

Table XVII.—Volume of Production, 1924-1935

Repair work	1935	1930	1924
Value of repair work as returned* ...	£'000 18,337	£'000 17,001	£'000 11,373
Estimated value at 1935 prices ...	18,337	15,000	7,600
Value of repair work as a percentage of 1935 ...	Per cent. 100	Per cent. 82	Per cent. 41

* Including the balance of work in progress at the end over the beginning of the year (see Table XVIII).

Table XVIII.—Other output

The value of the gross output of the firms whose principal business consisted in the repair of motor vehicles and cycles was £14,906,000 in 1935 and £13,860,000 in 1930, of which £14,032,000 in 1935 and £12,475,000 in 1930 consisted of output included in Table XVI. Particulars of the remaining output recorded by these firms are shown below:—

Kind of output	1935	1930
	Value	Value
Goods made:—	£'000	£'000
Motor vehicles:—		
Complete ...	32	} 28
Parts and accessories ...	35	
Motor bodies ...	369	557
Other goods ...	14	17
Total—Goods made ...	450	602
	Amount received	Amount received
Work done:—		
Repair work to other vehicles ...	54	297
Other repair and jobbing work ...	342	480
Total—Work done ...	396	777
TOTAL ...	846	1,379

The differences between the value of the work in progress at the beginning and the end of the year were as follows:—

	1935	1930
Work in progress at the end of the year ...	£'000 139	£'000 181
Work in progress at the beginning of the year ...	111	175
Balance ...	(+) 28	(+) 6

MATERIALS AND FUEL

Table XIX A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	1935		1930
	Quantity	Cost	Cost
	No.	£'000	£'000
Motor bodies :—			
For private cars and taxi-cabs	199	11	5,496
For commercial vehicles	1,110	46	
Chassis :—			
For private cars and taxi-cabs	365	38	
For commercial vehicles	271	71	
Complete engines	205	4	
Iron and steel (sheets, castings, and other semi-manufactures) ... ..	...	88
Copper in all forms	0.1	4	
Aluminium in all forms ... ..	...	4
Lead in all forms	0.1	3	
Fuel and electricity used for all purposes :—	Th. tons		
Coal	16.1	20	
Coke	25.6	34	
Heavy fuel oil	662	13	
Purchased electricity*	Th. B.T.U. (Kw.-hrs.)	221	
All other purchased materials and fuel	36,589	5,168	
TOTAL	5,725	5,496

* Including electricity generated in other works under the same ownership.

Table XIX B.—Consumption of coal, coke and electricity

Kind of fuel	1935		1930	
	Th. tons	Th. tons	Th. tons	Th. tons
Coal	16.1	2.5	...	...
Coke	25.6	9.5	...	...
Electricity :—	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	...	...
Generated in same works	9,408	1,116	...	...
Generated in other works under same ownership	2,576	—	...	...
Purchased	34,013	16,463	...	...
Total electricity consumed	45,997	17,579	...	...

EMPLOYMENT

Table XX A.—Average numbers employed

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives (average for the year)	5,116	46,778	19	502	5,135	47,280
Administrative, technical and clerical staff*	4,856	39,653	28	271	4,884	39,924
	1935	1930	1935	1930	1935	1930
	422	5,704	344	2,196	766	7,900
	480	4,770	262	1,712	742	6,482
TOTAL	1935	1930	1935	1930	1935	1930
	5,538	52,482	363	2,698	5,901	55,180
	5,336	44,423	290	1,983	5,626	46,406

* As at 12th October, 1935, and 18th October, 1930.

Table XX B.—Operatives employed in one week in each month of 1930 and 1935 by firms furnishing returns in respect of the twelve months ended December

Mid week of*	Operatives employed		Monthly index†	
	1930	1935	1930	1935
January	25,007	22,556	79.7	97.8
February	25,567	22,730	81.5	98.6
March	25,613	22,757	81.7	98.7
April	25,598	22,883	81.6	99.3
May	25,760	22,362	82.1	97.0
June	25,844	22,990	82.4	99.7
July	26,067	23,184	83.1	100.6
August	25,999	23,284	82.9	101.0
September	26,036	23,378	83.0	101.4
October	25,854	23,543	82.4	102.1
November	25,730	23,509	82.1	102.0
December	25,496	23,481	81.3	101.8
Average for the twelve months	25,714	23,055	82.0	100.0
Proportion of total operatives represented	66.32	48.76	...	...

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XX C.—Average numbers employed, 1924, 1930 and 1935

Year	Operatives	Administrative, technical and clerical staff	Total
1924	19,797	3,623	23,420
1930	39,924	6,482	46,406
1935	47,280	7,900	55,180

WAGES (MANUFACTURING AND REPAIRING FIRMS)

Table XXI.—Wages paid by firms furnishing returns of wages in 1935 and 1930

The aggregate amount of wages paid by the Manufacturing firms that furnished returns of wages for 1935 was £25,285,000, representing 51.5 per cent. of their total net output the corresponding figures for the Repairing firms being £1,732,000 and 68.5 per cent., respectively. The figures for these firms given below indicate the size of the samples and the extent to which they are representative.

Firms furnishing returns of wages, 1935	Manufacturing firms		Repairing firms	
	Aggregate	Proportion of trade	Aggregate	Proportion of trade
	£'000	Per cent.	£'000	Per cent.
Gross output	122,734	90.2	4,157	27.9
Net output	49,132	88.6	2,529	28.3
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	138,590	85.0	12,910	27.4
Females	25,085	83.4	142	28.1
Total	163,675	84.7	13,052	27.4
Average for the year	165,803	85.0	12,830	27.1
Administrative, technical and clerical staff	25,293	85.4	2,366	30.0
Number of establishments	428	51.3	458	26.9

Separate particulars for the Manufacturing and Repairing firms are not available for 1930. For the Motor and Cycle Trade as a whole, the total wages bill of firms that furnished wages returns for 1935 was £27,017,000, representing 52.3 per cent. of the net output of those firms; the corresponding figures for 1930 were £19,849,000 and 54.2 per cent. The proportion of the trade covered by the sample received for each year is indicated below.

Firms furnishing returns of wages	1935		1930	
	Aggregate	Proportion of trade	Aggregate	Proportion of trade
	£'000	Per cent.	£'000	Per cent.
Gross output	126,891	84.0	86,829	70.6
Net output	51,661	80.3	36,644	69.0
Operative staff employed :—	No.		No.	
During mid-week of October :—				
Males	151,500	72.1	*	*
Females	25,227	82.5		
Total	176,727	73.4	133,229	65.4
Average for the year	178,633	73.7	134,416	64.9
Administrative, technical and clerical staff	27,659	73.7	*	*
Number of establishments	886	34.9		

* Not recorded separately.

COUNTRY TABLES (1935)

Note.—The figures given in the following tables relate only to firms whose returns were made on schedules for the Motor and Cycle Trade and cover both Manufacturing and Repairing firms.

Table I.—General summary

Particulars	Unit	England and Wales	Scotland	Great Britain	Northern Ireland
Value of products (Gross output)	£'000	147,291	3,442	150,733	293
Cost of materials, fuel and electricity used	"	84,032	1,777	85,809	132
Amount paid for work given out	"	688	14	702	5
Net output	"	62,571	1,651	64,222	156
Average number of persons employed	No.	269,243	9,172	278,415	1,333
Net output per person employed	£	232	180	231	117
Number of returns	No.	1,859	153	2,012	41
Number of establishments	"	2,287	202	2,489	52

Table II.—Output

Kind of output	Unit	England and Wales	Scotland	Great Britain
Complete motor cars (including petrol, steam and electrically driven vehicles) :—				
Private cars :—				
Not exceeding 8 h.p.	No.	106,888	—	106,888
Over 8 h.p. and not exceeding 12 h.p.	£'000	10,307	—	10,307
Over 12 h.p. and not exceeding 16 h.p.	No.	150,663	—	150,663
Over 16 h.p. and not exceeding 20 h.p.	£'000	21,801	—	21,801
Over 20 h.p.	No.	43,402	—	43,402
Taxicabs	£'000	8,611	—	8,611
Not exceeding 8 h.p.	No.	14,861	—	14,861
Over 8 h.p.	£'000	4,352	—	4,352
Over 16 h.p.	No.	10,941	—	10,941
Over 20 h.p.	£'000	3,184	—	3,184
TOTAL—Private cars and taxi-cabs	No.	327,152	—	327,152
	£'000	48,379	—	48,379

Kind of output	Unit	England and Wales	Scotland	Great Britain
Complete motor cars (including petrol, steam and electrically driven vehicles):— <i>contd.</i>				
Commercial vehicles (other than taxi-cabs, tricar and tractors):—				
Passenger vehicles with internal combustion engines, designed to seat:—				
Not more than 20 passengers ...	No.	84	—	84
	£'000	50	—	50
More than 20 and not more than 32 passengers ...	No.	*	*	273
	£'000	*	*	295
More than 32 and not more than 48 passengers ...	No.	*	*	137
	£'000	*	*	207
More than 48 and not more than 64 passengers ...	No.	249	—	249
	£'000	405	—	405
Total—Passenger vehicles, commercial ...	No.	*	*	743
	£'000	*	*	957
Goods vehicles with internal combustion engines:—				
Capacity not exceeding 15 cwts.	No.	27,617	—	27,617
	£'000	3,029	—	3,029
Capacity exceeding 15 cwts. and not exceeding 30 cwts. ...	No.	6,818	—	6,818
	£'000	1,224	—	1,224
Capacity exceeding 30 cwts. and not exceeding 50 cwts. ...	No.	*	*	7,863
	£'000	*	*	1,685
Capacity exceeding 50 cwts. ...	No.	*	*	6,261
	£'000	*	*	2,708
Total—Goods vehicles with internal combustion engines	No.	*	*	48,559
	£'000	*	*	8,646
Other commercial vehicles driven by internal combustion engines (not taxi-cabs, tricar or tractors):—				
Ambulances ...	No.	181	—	181
	£'000	76	—	76
Other ...	No.	174	—	174
	£'000	164	—	164
Unclassified ...	No.	57	—	57
	£'000	39	—	39
Steam and electrically driven commercial vehicles ...	No.	438	—	438
	£'000	126	—	126
TOTAL—Commercial vehicles (other than taxi-cabs, tricar and tractor)	No.	*	*	50,152
	£'000	*	*	10,008
Complete chassis:—				
For private cars:—				
Not exceeding 8 h.p. ...	No.	2,122	—	2,122
	£'000	117	—	117
Over 8 h.p. and not exceeding 12 h.p. ...	No.	8,528	—	8,528
	£'000	610	—	610
Over 12 h.p. and not exceeding 16 h.p. ...	No.	5,851	—	5,851
	£'000	572	—	572
Over 16 h.p. and not exceeding 20 h.p. ...	No.	612	—	612
	£'000	135	—	135
Over 20 h.p. ...	No.	3,588	—	3,588
	£'000	1,600	—	1,600
Unclassified (including taxi-cabs)	No.	1,463	—	1,463
	£'000	244	—	244
TOTAL—Chassis for private vehicles ...	No.	22,164	—	22,164
	£'000	3,278	—	3,278

Kind of output	Unit	England and Wales	Scotland	Great Britain
Complete chassis:— <i>contd.</i>				
For commercial vehicles (other than taxi-cabs, tricar and tractor):—				
For passenger vehicles with internal combustion engines, designed to seat:—				
Not more than 20 passengers ...	No.	637	—	637
	£'000	196	—	196
More than 20 and not more than 32 passengers ...	No.	*	*	1,612
	£'000	*	*	1,005
More than 32 and not more than 48 passengers ...	No.	*	*	972
	£'000	*	*	807
More than 48 and not more than 64 passengers ...	No.	*	*	1,232
	£'000	*	*	1,099
TOTAL—Chassis for passenger vehicles ...	No.	*	*	4,453
	£'000	*	*	3,107
For goods vehicles with internal combustion engines:—				
Capacity not exceeding 15 cwts. ...	No.	4,249	—	4,249
	£'000	388	—	388
Capacity exceeding 15 cwts. and not exceeding 30 cwts. ...	No.	6,345	—	6,345
	£'000	807	—	807
Capacity exceeding 30 cwts. and not exceeding 50 cwts. ...	No.	*	*	12,952
	£'000	*	*	2,174
Capacity exceeding 50 cwts. ...	No.	*	*	13,320
	£'000	*	*	3,847
TOTAL—Chassis for goods vehicles ...	No.	*	*	36,866
	£'000	*	*	7,216
For other commercial vehicles driven by internal combustion engines (not taxi-cabs, tricar or tractor):—				
Ambulances ...	No.	58	—	58
	£'000	14	—	14
Other ...	No.	41	—	41
	£'000	25	—	25
For steam and electrically driven commercial vehicles ...	No.	*	*	115
	£'000	*	*	21
TOTAL—Chassis for commercial vehicles (other than taxi-cabs, tricar and tractor)	No.	*	*	41,533
	£'000	*	*	10,383
Motor bodies, complete:—				
For private cars and taxi-cabs ...	No.	*	*	133,819
	£'000	*	*	5,220
For commercial vehicles:—				
Passenger vehicles:—				
Single deck ...	No.	3,882†	367	4,249
	£'000	2,079†	200	2,279
Double deck ...	No.	46,686†	1,098	47,784
	£'000	1,709†	82	1,791
Goods vehicles ...	No.	*	*	185,852
	£'000	*	*	9,290
TOTAL—Motor bodies ...	No.	*	*	185,852
	£'000	*	*	9,290

Kind of output	Unit	England and Wales	Scotland	Great Britain
Trailers, complete (including living wagons, etc.)†... ..	No.	4,031	—	4,031
Engines for motor cars :—	£'000	466	—	466
Internal combustion :—				
Light oil :—				
Constructed solely for commercial use	No.	33,183	—	33,183
Other	£'000	808	—	808
Heavy oil	No.	108,734	—	108,734
Other	£'000	2,183	—	2,183
Other	No.	1,098	—	1,098
Other	£'000	292	—	292
Other	No.	2	—	2
Other	£'000	1	—	1
Other parts and accessories for motor cars, sold separately :—				
Gear boxes	No.	16,642	—	16,642
Axles, including shafts	£'000	190	—	190
Wheels and parts thereof, not included elsewhere, except tyres ...	No.	179,467	—	179,467
Lamps (other than lighting and starting sets)	£'000	1,076	—	1,076
Ignition apparatus other than magnetos :—	Th. cwts.	580	—	580
Sparking plugs§	£'000	1,068	—	1,068
Other	£'000	204	—	204
Radiators	Thous.	495	—	495
Electric warning signals (horns, etc.)	£'000	204	—	204
Carburettors	Thous.	5,317	—	5,317
Windscreens, windshields, etc. :—	£'000	445	—	445
Quantity stated ...	£'000	455	—	455
Quantity not stated	£'000	254	—	254
Parts of motor bodies	£'000	987	—	987
Steering wheels† :—	£'000	207	—	207
Quantity stated ...	£'000	455	—	455
Quantity not stated	£'000	359	—	359
Parts of engines†	Thous.	262	—	262
Wind screen wipers†	£'000	303	—	303
Shock absorbers†	£'000	86	—	86
Other parts and accessories not specified above|| ... ..	£'000	2,461	24	2,485
Sheet metal work (e.g., bumpers, dust shields, bonnets, wings, petrol tanks, etc.)†	Thous.	249	—	249
Unclassified parts and accessories ...	£'000	109	—	109
Quantity stated ...	£'000	64	—	64
Quantity not stated	£'000	1,292	—	1,292
Parts of engines†	£'000	116	—	116
Wind screen wipers†	£'000	361	—	361
Shock absorbers†	£'000	361	—	361
Other parts and accessories not specified above|| ... ..	£'000	10,357	—	10,357
Sheet metal work (e.g., bumpers, dust shields, bonnets, wings, petrol tanks, etc.)†	£'000	2,341	6	2,347
Unclassified parts and accessories ...	£'000	2,753	—	2,753
TOTAL—Other parts and accessories for motor cars	£'000	25,234	30	25,264
Motor cycles and tricars, complete :—				
Motor cycles	No.	59,157	—	59,157
Tricars	£'000	2,216	—	2,216
Invalid chairs	No.	5,152	—	5,152
Engines for motor cycles and tricars ...	£'000	387	—	387
Motor cycles	No.	274	—	274
Tricars	£'000	11	—	11
Invalid chairs	£'000	11	—	11
Engines for motor cycles and tricars ...	No.	30,678	—	30,678
Motor cycles	£'000	177	—	177

Kind of output	Unit	England and Wales	Scotland	Great Britain
Other parts and accessories for motor cycles and tricars :—				
Wheels and parts thereof, not included elsewhere, except tyres :—				
Quantity stated ...	Th. cwts.	7,801	—	7,801
Quantity not stated	£'000	18	—	18
Side cars	£'000	16	—	16
Gears and gear casings (including complete gear boxes)	No.	9,657	—	9,657
Mudguards and chain covers† :—	£'000	105	—	105
Quantity stated ...	No.	41,534	—	41,534
Quantity not stated	£'000	132	—	132
Parts of engines†	No.	133,040	—	133,040
Other parts and accessories (including saddles) not specified above|| ...	£'000	19	—	19
Unclassified	£'000	16	—	16
Total—Other parts and accessories for motor cycles	£'000	579	—	579
TOTAL—Motor vehicles and parts and accessories	£'000	543	132	675
Complete bicycles and tricycles (not mechanically propelled)	Thous.	1,984	—	1,984
Parts and accessories for cycles (not mechanically propelled), sold separately :—	£'000	6,656	—	6,656
Frames	Thous.	*	*	508
Handle bars :—	Cwts.	36,351	—	36,351
Quantity stated ...	£'000	203	—	203
Quantity not stated	£'000	30	—	30
Wheels and parts thereof not included elsewhere, except tyres :—				
Quantity stated ...	Cwts.	144,762	—	144,762
Quantity not stated	£'000	359	—	359
Hubs	£'000	96	—	96
Saddles	Thous.	3,872	—	3,872
Pumps	£'000	685	—	685
Mudguards	Thous.	2,733	—	2,733
Chain wheels, cranks and pedals† ...	£'000	399	—	399
Free wheels†	£'000	4,271	—	4,271
Gear cases† :—	£'000	149	—	149
Quantity stated ...	Thous.	7,615	—	7,615
Quantity not stated	£'000	175	—	175
Other parts and accessories, not specified above|| ... ..	£'000	392	—	392
Unclassified	£'000	153	—	153
TOTAL—Bicycles, tricycles and parts and accessories	£'000	326	—	326
Quantity stated ...	£'000	63	—	63
Quantity not stated	£'000	28	—	28
Other parts and accessories, not specified above|| ... ..	£'000	1,431	—	1,431
Unclassified	£'000	170	—	170
TOTAL—Bicycles, tricycles and parts and accessories	£'000	*	*	11,421

Kind of output	Unit	England and Wales	Scotland	Great Britain
Aircraft engines and parts	£'000	57	—	57
Other parts of aircraft	£'000	379	—	379
Ball bearings, roller bearings, etc., and steel transmission chains	£'000	391	—	391
Wireless apparatus	£'000	55	—	55
Electrical machinery and apparatus and parts thereof (including magnetos, dynamos, etc.)	£'000	224	—	224
Locomotives, tractors, trams and other vehicles and parts thereof	£'000	1,813	2	1,815
Other engineering products	£'000	641	—	641
Other manufactures of iron and steel	£'000	534	1	535
Scientific instruments	£'000	444	—	444
Other manufactures:—				
Mainly of non-ferrous metals	£'000	144	—	144
Mainly of wood	£'000	58	3	61
Mainly of leather	£'000	28	—	28
Other goods made and electricity sold... ..	£'000	421†	—	421
Total value of goods made	£'000	129,568	1,791	131,359
Scrap metal sold:—				
Iron and steel	£'000	1	—	1
Other	£'000	38	—	38
Repair work:—		Amount received	Amount received	Amount received
To motor vehicles and motor cycles... ..	£'000	16,679†	1,396	18,075
To cycles	£'000	83	1	84
To other vehicles	£'000	162†	9	171
Other repair and jobbing work	£'000	571	50	621
Work done for the trade (machining, grinding, enamelling, etc.)	£'000	400	—	400
Total amount received for work done	£'000	17,895†	1,456	19,351
Total of above	£'000	147,502†	3,247	150,749
Plus value of work in progress at the end of 1935	£'000	10,465	619	11,084
Less value of work in progress at the beginning of 1935	£'000	10,383	424	10,807
TOTAL VALUE OF GOODS MADE AND WORK DONE	£'000	147,584†	3,442	151,026

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† Including the following output recorded by firms in Northern Ireland:—

	£'000
Motor bodies	10 (103 bodies)
Other goods	1
Repair work:—	
To motor vehicles	277¶
To other vehicles	5¶
Total	293

‡ So far as recorded separately.

§ Including sparking plugs for motor cycles.

¶ Excluding steel transmission chains and ball and roller bearings.

¶¶ Amount received.

Table III A.—Materials, fuel and electricity purchased and used

Kind of materials, etc.	Unit	England and Wales	Scotland	Great Britain	Northern Ireland
Materials used:—					
Motor bodies:—					
For private cars and taxicabs	No. } £'000	99,799 } 4,210	—	99,799 } 4,210	—
For commercial vehicles	No. } £'000	—	—	29,162 } 1,122	—
Chassis:—					
For private cars	No. } £'000	* } —	* } —	11,375 } 857	—
For commercial vehicles	No. } £'000	—	—	6,636 } 1,801	—
Complete engines:—					
For motor cars	No. } £'000	106,148 } 2,429	—	106,148 } 2,429	—
For motor cycles } Number stated } Number not stated }	No. } £'000 } £'000 }	9,823 } 76 } 61 }	— } — } — }	9,823 } 76 } 61 }	— } — } — }
Iron and steel:—					
Sheets	Th. tons } Quantity stated } Quantity not stated }	210.8 } £'000 } £'000 }	0.1 } 2 }	210.9 } 3,238 } 582 }	— } — } — }
Castings, forgings, pressings	Th. tons } Quantity stated } Quantity not stated }	114.2 } £'000 } £'000 }	0.1 } 8 }	114.3 } 4,834 } 755 }	— } — } — }
Tubes	Th. tons } Quantity stated } Quantity not stated }	14.7 } £'000 } £'000 }	— } — }	14.7 } 603 } 202 }	— } — } — }
Other semi-manufactures of iron and steel } Quantity stated } Quantity not stated }	Th. tons } £'000 } £'000 }	61.5 } 2,516 } 506 }	‡ } 1 } 2 }	61.5 } 2,517 } 508 }	— } — } — }
Copper in all forms	Th. tons } £'000 }	11.7 } 721 }	—	11.7 } 721 }	—
Aluminium in all forms	Th. tons } Quantity stated } Quantity not stated }	5.2 } £'000 } £'000 }	‡ } 7 }	5.2 } 653 } 451 }	— } — } — }
Lead in all forms	Th. tons } £'000 }	7.6 } 127 }	—	7.6 } 127 }	—
Unclassified materials	£'000 }	1,599	—	1,599	—
Fuel and electricity used for all purposes:—					
Coal	Th. tons } Quantity stated } Quantity not stated }	231.1 } £'000 } £'000 }	6.0 } 6 }	237.1 } 236 } 65 }	— } — } — }
Coke	Th. tons } Quantity stated } Quantity not stated }	82.4 } £'000 } £'000 }	1.3 } 2 }	83.7 } 117 } 15 }	0.1 } § } — }
Heavy fuel oil } Quantity stated } Quantity not stated }	Th. galls. } £'000 } £'000 }	6,127 } 119 } 48 }	189 } 3 }	6,316 } 122 } 48 }	7 } § } — }
Purchased electricity|| ... ..	B.T.U. } (Kw.-hrs.) } £'000 }	326,108 } 976 }	13,373 } 67 }	339,481 } 1,043 }	518 } 4 }
All other purchased materials and fuel	£'000 }	55,355	1,462	56,817	128
TOTAL	£'000	84,032	1,777	85,809	132

* Owing to the possible disclosure of information relating to individual firms separate particulars cannot be given.

‡ Less than 50.

§ Less than £500.

|| Including electricity generated in other works under the same ownership.

Table III B.—Consumption of electricity

Electricity consumed	England and Wales	Scotland	Great Britain	Northern Ireland
	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)	Th. B.T.U. (Kw.-hrs.)
Generated in same works ...	83,020	58	83,078	186
Generated in other works under same ownership ...	3,023	—	3,023	—
Purchased ...	323,085	13,373	336,458	518
Total ...	409,128	13,431	422,559	704

Table IV A.—Numbers employed in week ended 12th October, 1935

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
England and Wales :—						
Operatives ...	21,221	201,698	6,272	30,177	27,493	231,875
Administrative, etc.* ...	2,363	24,273	2,412	11,429	4,775	35,702
Total ...	23,584	225,971	8,684	41,606	32,268	267,577
Scotland :—						
Operatives ...	833	7,345	25	409	858	7,754
Administrative, etc.* ...	62	845	83	681	145	1,526
Total ...	895	8,190	108	1,090	1,003	9,280
Great Britain :—						
Operatives ...	22,054	209,043	6,297	30,586	28,351	239,629
Administrative, etc.* ...	2,425	25,118	2,495	12,110	4,920	37,228
TOTAL ...	24,479	234,161	8,792	42,696	33,271	276,857
Northern Ireland :—						
Operatives ...	193	1,237	—	4	193	1,241
Administrative, etc.* ...	4	189	7	91	11	280
Total ...	197	1,426	7	95	204	1,521

* Administrative, technical and clerical staff.

Table IV B.—Operatives employed in one week in each month of 1935

Week ended	Males and females			
	England and Wales	Scotland	Great Britain	Northern Ireland
January 19 ...	234,930	7,122	242,052	1,016
February 16 ...	236,908	7,319	244,227	1,001
March 16 ...	237,917	7,452	245,369	984
April 13 ...	239,570	7,566	247,136	992
May 18 ...	236,487	7,802	244,289	1,004
June 15 ...	229,388	7,908	237,296	1,005
July 13 ...	228,349	7,926	236,275	986
August 17 ...	219,252	7,840	227,092	976
September 14 ...	229,332	7,831	237,163	988
October 12 ...	231,875	7,754	239,629	1,241
November 16 ...	237,774	7,624	245,398	1,215
December 14... ..	240,712	7,607	248,319	1,230
Average for the twelve months...	233,541	7,646	241,187	1,053

Table V.—Firms employing not more than ten persons on the average

Particulars	England and Wales	Scotland	Great Britain	Northern Ireland
Number of returns received ...	No. 12,696	No. 1,191	No. 13,887	No. 485
Average number of persons employed :—				
Males ...	51,837	5,066	56,903	1,611
Females ...	3,541	616	4,157	140
Total ...	55,378	5,682	61,060	1,751