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BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 3

Trade I

MOTOR VEHICLES AND CYCLES
MANUFACTURING



*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
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* Not applicable to this trade

MOTOR VEHICLES AND CYCLES (MANUFACTURING) TRADE

THIS REPORT on the Motor Vehicles and Cycles (Manufacturing) Trade relates to establishments engaged wholly or mainly in the manufacture of motor vehicles and cycles, including parts and accessories other than electrical equipment, rubber tyres and tubes, transmission chains, ball and roller bearings, and springs. Establishments wholly or mainly engaged in repair work are dealt with in a separate report. In 1937 and 1935 all establishments engaged in the manufacture of motor vehicles and cycles were included in the manufacturing trade even though their main output consisted of repair work. Particulars of the returns for 1935 included in this report that showed the major part of the output as repair work are as follows (similar particulars are not available for 1937):-

Gross output	£1,920,000
Net output	£1,084,000
Average number of persons employed	6,204
Number of establishments	139

This trade corresponds to minimum list heading 80 and part of heading 83 (which covers also parts and accessories for aircraft) in the Standard Industrial Classification.

For 1951, 1950 and 1949 particulars for Northern Ireland are not separately available and have been included in the report on the Motor Vehicles and Cycles (Repairing) Trade (Volume 3, Trade J).

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

MOTOR VEHICLES AND CYCLES (MANUFACTURING) TRADE

Summary

Larger establishments (a)

	Great Britain				United Kingdom	
	1951	1950	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (b)	775,177	669,287	551,380	469,352	164,466	129,503
Cost of materials and fuel used (c)	494,159	425,916	352,516	285,243	100,709	77,499
Payment for work done on materials given out	10,423	11,657	5,477	5,411	560	449
Transport payments (d)	4,192	..	..	..	..	..
Net output	266,403	231,715	193,386	178,698	63,197	51,555
Wages and salaries of persons employed	158,000	145,414	130,738	115,935	..	..
	No.	No.	No.	No.	No.	No.
Average number of persons employed (e)	361,227	354,160	335,103	316,150	234,185	206,625
	£	£	£	£	£	£
Net output per person employed (e)	737	654	577	565	270	250
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	90,277	69,199	63,138	61,126 (f)	..	..
Materials and fuel	62,989	46,305	45,436	47,900 (f)	..	..
	No.	No.	No.	No.	No.	No.
Number of establishments	1,068	1,119	1,112	1,023 (f)	..	822

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

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (g)						
Principal products (h)	695,401	665,298	551,716	420,711	151,571	122,175
Other output (i)	57,743					
Changes in stocks and work in progress (j)	+ 22,033	+ 5,901	+ 1,315	+ 9,436	+ 2,902 (k)	+ 313 (k)
	775,177	671,200	553,031	470,504	164,466	129,503
Less payment for transport outwards (d)	..	1,912	1,651	1,152		
Gross output (production)	775,177	669,287	551,380	469,352	164,466	129,503
Materials and fuel used by firms in this trade						
Purchases	511,460	428,130	348,827	292,132	100,709	77,499
Changes in stocks (j)	- 17,301	- 2,214	+ 3,689	- 6,889		
Materials and fuel used	494,159	425,916	352,516	285,243	100,709	77,499

- (a) For small firms' summary see Table 2.
 (b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.
 (c) Amounts paid for delivery services are excluded for 1951 but included for other years.
 (d) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.
 (e) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.
 (f) Corrected figure.
 (g) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).
 (h) For details for 1951 and 1948 see Table 8.
 (i) For details for 1951 and 1948 see Table 10.
 (j) For details for 1951 see Table 21.
 (k) Work in progress only.

Summary

Small firms (a)

TABLE 2

	Great Britain			
	1951	1950	1949	1948
Number of returns	740	624	796	715
Average number of persons employed (b)				
Males	3,760	2,975	3,844	3,602
Females	508	457	405	397
Total	4,268	3,432	4,249	3,999

- (a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.
 (b) Including working proprietors.

Estimated average employment (a)

All firms

TABLE 3

	Great Britain			
	1951	1950	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	361,227	354,160	335,103	316,150
Employing on the average ten or fewer persons (c)	4,268	3,432	4,249	3,999
Estimated average employment in firms not making satisfactory returns	673	995	713	1,735
Estimated average employment in all firms	366,168	358,587	340,065	321,884

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

Analysis by size, 1951

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	209	5,063	2,081	3,744	1,038	288	1,326	556
25 - 49	277	14,488	5,720	9,761	2,836	728	3,564	586
50 - 99	185	21,349	8,165	13,380	4,112	1,109	5,221	610
100 - 199	143	31,709	12,747	20,340	6,453	1,640	8,093	627
200 - 299	62	23,923	10,157	15,279	4,516	1,325	5,841	665
300 - 399	32	17,176	7,434	11,057	3,617	1,050	4,667	672
400 - 499	23	22,660	6,687	10,319	3,062	934	3,996	648
500 - 749	32	40,277	15,040	19,435	6,442	1,638	8,080	774
750 - 999	22	37,112	14,036	18,618	6,133	1,808	7,941	754
1,000 - 1,499	32	64,672	25,876	38,530	13,126	3,002	16,128	672
1,500 - 1,999	15	44,668	17,759	25,239	8,482	1,988	10,470	704
2,000 - 2,499	6	29,057	9,635	13,757	4,640	1,098	5,738	700
2,500 - 2,999	8	45,396	14,846	21,603	7,751	1,745	9,496	687
3,000 - 4,999	11	100,431	28,120	40,537	15,163	3,522	18,685	694
5,000 - 9,999	8	113,763	38,669	52,870	21,118	3,687	24,804	731
10,000 and over	3	163,432	49,431	46,758	19,296	4,654	23,950	1,057
Total	1,068	775,177	266,403	361,227	127,784	30,217	158,000	737

- (a) Administrative, technical and clerical employees.

Analysis by standard region, 1951
Larger establishments in Great Britain

TABLE 5

Region	Estab-lish-ments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percent- age of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England									
Northern	10	1,125	458	0.2	745	239	53	292	615
East and West Ridings	77	35,700	12,871	4.8	18,432	5,902	1,405	7,307	698
North Midland	45	32,570	13,999	5.3	18,327	6,139	1,453	7,592	764
Eastern	55	54,863	17,162	6.4	22,553	8,064	2,457	10,522	761
London and South Eastern	250	154,881	55,778	20.9	70,608	25,687	7,192	32,880	790
Southern	53	72,336	19,066	7.2	25,118	9,163	2,008	11,171	759
South Western	45	5,056	2,055	0.8	4,075	1,167	305	1,472	504
Midland	379	356,817	122,819	46.1	161,192	59,645	12,074	71,719	762
North Western	98	41,725	14,668	5.5	26,916	8,119	2,285	10,404	545
Total England	1,012	755,074	258,875	97.2	347,966	124,125	29,233	153,358	744
Wales	23	13,686	5,152	1.9	8,148	2,290	537	2,827	632
Scotland	33	6,417	2,376	0.9	5,113	1,368	447	1,815	465
Great Britain	1,068	775,177	266,403	100.0	361,227	127,784	30,217	158,000	737

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in Great Britain

TABLE 6

	Estab-lish-ments	Gross output	Sales of charac-teristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Operatives	Other employees (a)	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of Cars and taxis, and chassis with engines therefor	34	157,732	107,871	42,212	49,960	19,393	3,742	23,135	845
Commercial vehicles and chassis with engines therefor; tractors; and industrial and works trucks and works tractors	116	140,415	94,746	40,217	61,491	20,029	6,427	26,456	654
Motor cycles (complete); and three-wheeled vehicles and chassis with engines therefor	26	24,067	16,599	10,321	14,988	4,659	1,188	5,847	689
Motor bodies; sidecars and sidecar chassis and bodies; and trailers (motor drawn) and caravans	292	92,885	68,527	37,129	58,735	22,810	3,948	26,758	632
Internal combustion engines for motor vehicles	11	23,481	20,085	9,341	12,396	4,614	871	5,484	754
Other parts and accessories of motor vehicles and motor cycles	370	139,754	107,777	62,327	85,312	27,800	7,280	35,081	731
Bicycles and tricycles (not mechanically propelled), and parts and accessories	116	44,931	40,599	18,614	26,376	7,851	1,627	9,479	706
Remainder of the trade	103	151,913	46,242	46,242	51,969	20,628	5,133	25,761	890
Total	1,068	775,177		266,403	361,227	127,784	30,217	158,000	737

(a) Administrative, technical and clerical employees.

(94544)

Total make of certain intermediate products
Larger establishments in Great Britain in the trade

TABLE 7

	1951		1948
	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons
Other than principal products			
Castings of iron (including malleable iron)			
Gears and gear-wheels for vehicles (a)	-	..	111(c)
Other castings, in the rough or machined (including castings for engines) (b)			
For cars, commercial vehicles, buses, trolley buses, tractors, works trucks, etc.	120	23	
For cycles and motor cycles	1	6	8
Other	6	17	

(a) For total output returned in all trades see the Mechanical Engineering (General) Trade (Volume 4, Trade I).

(b) For total output returned in all trades see the Iron Foundries Trade (Volume 3, Trade C).

(c) Recorded as 'Gears and gear wheels for vehicles, and other castings, in the rough or machined, for cars and commercial vehicles'.

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

Larger establishments in Great Britain (a)

TABLE 8

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles					
Cars and taxis (excluding utilities and three-wheeled vehicles), and chassis with engines therefor					
Complete cars and taxis (b)					
Not exceeding 1,000 c.c.	55,106	13,441	..	48,750	10,231
Exceeding 1,000 c.c. but not exceeding 1,200 c.c.	163,082	47,733	8	147,368	35,529
Exceeding 1,200 c.c. but not exceeding 1,600 c.c.	95,581	31,332	7	35,171	11,612
Exceeding 1,600 c.c. but not exceeding 1,900 c.c.	817	643	..	30,517	13,587
Exceeding 1,900 c.c. but not exceeding 2,200 c.c.	77,063	34,202	11	23,985	11,224
Exceeding 2,200 c.c. but not exceeding 2,800 c.c.	53,324	23,751	11	13,153	5,929
Exceeding 2,800 c.c.	18,767	17,207	12	8,076	6,672
Taxis, complete	..	..	..	380	237
Chassis with engines therefor (c)					
Not exceeding 1,000 c.c.	-	-	-	3,884	424
Exceeding 1,000 c.c. but not exceeding 1,200 c.c.	12,466	1,465	..	4,875	713
Exceeding 1,200 c.c. but not exceeding 1,600 c.c.	4,270	906	5	3,638	445

(94544)

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles (contd.)					
Cars and taxis (excluding utilities and three-wheeled vehicles), and chassis with engines therefor (contd.)					
Chassis with engines therefor (c) (contd.)					
Exceeding 1,600 c.c. but not exceeding 1,900 c.c.	1,267	506	5	3,387	656
Exceeding 1,900 c.c. but not exceeding 2,200 c.c.				3	1
Exceeding 2,200 c.c. but not exceeding 2,800 c.c.	816	289	7	1,751	281
Exceeding 2,800 c.c.	700	549	7	524	484
Chassis for taxis	..	..	..	22	9
Total cars and taxis, and chassis therefor (excluding electrically propelled cars)	483,259	172,025	..	325,484	98,034
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor (d)					
Public service passenger vehicles with internal combustion engines, complete					
Single deck	787	1,842	19	1,361	4,745
Double deck	973	2,958	5		
Chassis for passenger vehicles, with internal combustion engines					
Not exceeding 50 cwts. unladen weight	2,519	1,564	..	11,709	16,007
Exceeding 50 cwts. unladen weight	6,247	11,029	11		
Total of commercial passenger vehicles and chassis with internal combustion engines (e)	10,526	17,394	..	13,070	20,751
Electric trolley buses					
Complete vehicles	155	378	5	27	151
Chassis with engines				580	1,188 (c)
Delivery vans and dual purpose vehicles (utilities), with internal combustion engines, complete	106,864	32,236	20	60,688	14,309
Other goods vehicles with internal combustion engines, complete					
Not exceeding 3 tons unladen weight					
With compression-ignition engines	763	812	13	38,776	21,376 (f)
Other	62,725	26,640	15		
Exceeding 3 tons unladen weight					
With compression-ignition engines	1,493	3,222	15	53,276	24,638
Other	18,041	10,069	10		
Chassis for goods vehicles, with internal combustion engines (excluding complete motive units for articulated vehicles) (g)					
With compression-ignition engines	15,371	16,818	18	53,276	24,638
Other	40,061	16,848	13		
Total goods vehicles with internal combustion engines and chassis therefor	245,318	106,646	..	152,740	60,324

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles (contd.)					
Electrically operated goods vehicles (other than industrial trucks)					
Complete vehicles					
Pedestrian controlled	886	239	7	4,056	2,037
Other	817	616	8		
Chassis with engines	226	81	..	690	235
Fire engines, ambulances, etc. (h)	1,484	1,994	16	120	169 (i)
Other commercial vehicles					
Complete	-	-	-	1,067	1,194
Chassis	-	-	-	156	137
Tractors (including three-wheeled tractors but excluding works tractors)					
Complete					
Track-laying					
Base machines (i.e., machines without equipment), excluding machines specially adapted for purposes in which the track is ancillary	3,826	3,133	5	123,295	32,520
Machines fitted with equipments (e.g., angle-dozers, bulldozers)	295	642	..		
Other and unclassified	1,590	580	9		
Wheeled and half-track					
Agricultural and market garden types					
With internal combustion engines					
Under 10 h.p.	21,811	1,685	17	123,295	32,520
10 h.p. and over	134,044	46,610	19		
Motive units for articulated vehicles	1,863	1,762	10		
Other types	410	1,522	6		
Total tractors (except works tractors)	163,839	55,934	..	123,295	32,520
Industrial and works trucks and works tractors (of the types used in factories, warehouses, railway stations and docks)					
Complete					
Trucks					
Fork lift					
Electrically operated	692	887	9	5,181	2,733
With internal combustion engines	1,731	1,927	10		
Platform and other					
Electrically operated	2,060	742	12	5,181	2,733
With internal combustion engines	2,449	677	10		
Works tractors	529	374	8		
Other motor vehicles, including electrically propelled cars, and mechanically propelled invalid carriages and bath chairs	213	95	7	2,167	216 (j)
Reconditioned motor vehicles other than motor cycles (h)	3,175	1,511	18	..	78
	..	444	..	1,943	1,329
				..	285

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000-	No.	No.	£'000
Motor cycles and three-wheeled vehicles					
Complete motor cycles (including autcycles, miniature motor cycles and motorised bicycles)					
Not exceeding 100 c.c.	18,647	764	10	18,490	627
Exceeding 100 c.c. but not exceeding 250 c.c.	64,847	4,366	16	29,038	1,650
Exceeding 250 c.c. but not exceeding 350 c.c.	22,836	2,497	10	27,045	2,603
Exceeding 350 c.c.	71,268	9,200	10	45,752	5,042
Three-wheeled vehicles and chassis with engines (including motor cycle combinations but excluding tractors)					
Passenger	2,589	283	8	2,318	395(k)
Goods	1,803	385	6		
Total motor cycles complete, three-wheeled vehicles and chassis with engines	181,990	17,494	..	122,643	10,317
Motor vehicle and motor cycle parts and accessories					
Parts and accessories of motor vehicles (except chassis with engines), sold separately					
Motor bodies, complete					
For cars and taxis	159,329	23,538	54	227,227	16,395
For commercial vehicles					
Trolley buses	170	363	7	320	740
Other passenger vehicles					
Single deck	4,208	7,453	60	6,156	7,821
Double deck	2,679	6,055	27	3,326	6,751
Trolley buses and other passenger vehicles, unclassified	288	327	19	-	-
Delivery vans (including utilities)	42,097	4,669	235	47,900	4,224
Other goods and commercial vehicles	39,915	5,893	343	25,868	3,371
Unclassified	-	-	-	2,803	610
Total motor bodies, complete	248,687	48,299	..	313,600	39,913
Cabs for goods vehicles	26,177	1,665	74	..	(1)
Other parts of motor bodies					
Motor body shells	303,746	13,908	20	..	(1)
Panels for goods vehicles	No. of sets			No. of sets	
Sheet metal (bonnets, wings, petrol tanks, etc.), not elsewhere specified	25,766	315	19	66,760	1,919(m)
Other	..	90	..	..	..
Chassis without engines	125,531	1,934	11	125,954	1,954
Sidecars and sidecar chassis and bodies	13,078	546	11	7,451	281(n)
Internal combustion engines, complete					
Compression ignition	61,875	11,308	20	..	30
Other					
For motor vehicles (including tractors and electrically driven vehicles)	146,550	8,804	21	111,934	9,401
	..	1,006	..	..	..

(94544)

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicle and motor cycle parts and accessories (contd.)					
Parts and accessories of motor vehicles (except chassis with engines), sold separately (contd.)					
Internal combustion engines, complete (contd.)					
Other (contd.)					
For motor cycles and three-wheeled vehicles, other than tractors					
Less than 50 c.c.	70,111	849	6		
50 c.c. but less than 100 c.c.	18,726	221	..	77,182	1,297
100 c.c. and over	36,339	723	11		
Parts of engines, not elsewhere specified (h)	..	19,869	81	..	10,476
Reconditioned engines (h)	..	..	..	..	..
Wheels and parts thereof, not included elsewhere (except tyres sold separately)	Tons			Tons	
For motor vehicles (including tractors and electrically driven vehicles), other than motor cycles and three-wheeled vehicles	116,490	7,268	24	59,028	3,958
For motor cycles and three-wheeled vehicles other than tractors	1,029	104	14	1,046	126
Gear boxes	No.	99	..	..	83
For motor vehicles (including tractors and electrically driven vehicles), other than motor cycles and three-wheeled vehicles	36,016	1,792	28	11,167	486(o)
For motor cycles and three-wheeled vehicles other than tractors	..	368	..	..	52
Carburettors	Thous.			Thous.	
	50,112	406	6	877	1,409(p)
	1,740	2,637	17	..	612
Axles	No. Tons			No. Tons	
	124,667 8,633	2,224	31	76,443 5,730	1,525
	36,926 ..	2,232	..	25,981 ..	1,326
	.. ..	3,920	..	.. ..	2,072
Brakes and parts thereof, other than linings, containing asbestos	Tons			Tons	
	22,962	4,333	40	24,911	2,591(q)
Clutches and parts thereof, other than linings containing asbestos	..	7,444	..	..	4,368
Gaskets and jointings	18,597	2,923	26	13,164	1,707
Radiators	5,466	2,834	42	3,286	1,446
Radiator blocks (h)	..	1,281	..	..	653
Registration plates of all kinds	Thous.			Thous.	
	806	5,712	27	482	3,936
Windscreens, windshields, etc.	..	1,447	6	-	-
Windscreen wipers and parts thereof	949	399	26	823	278
Sparking plugs, other than for aircraft	..	97	..	..	81
Instruments	1,443	2,413	47	1,102	2,205
Speedometers	..	443	..	..	..
Other, except electrical instruments, clocks, thermostats and pressure gauges (s)	Cwts.			Cwts.	
	7,166	601	12	850	81
	..	1,181	..	..	445
	Thous.			Thous.	
	42,774	3,415	14	23,870	2,251(r)
	No.			No.	
	246	249	12	755	757
	..	3,663	..	..	639

(94544)

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Thous.	£'000	No.	Thous.	£'000
Motor vehicle and motor cycle parts and accessories (contd.)					
Parts and accessories of motor vehicles (except chassis with engines), sold separately (contd.)					
Saddles and pillion seats	309	289	16	79	56 (t) 90
Steering gears and parts, including steering wheels for motor vehicles and tractors (h)	..	3,555	12	-	-
Shock absorbers and dampers (h)	..	4,154	11	-	-
Tipping gears and parts thereof (h)	..	1,168	13	-	-
Chassis frames and components (h)	..	4,203	5	-	-
Silencers and parts thereof (h)	..	631	6	-	-
Heaters and parts thereof (h)	..	631	6	-	-
Tie rods, track rods and parts (h)	..	1,252	..	-	-
Flexible pipes and drives, and other pipes and tubes (h)	..	777	5	-	-
Parts of tractors, not elsewhere specified (h)	..	6,127	150	..	8,218
Other parts and accessories (u)	..	41,876	179	..	31,032
Unclassified parts and accessories	..	30,482	289	..	12,035(v)
Total motor vehicle and motor cycle parts and accessories (except bodies, complete)		231,036	..		124,344
Cycles (not mechanically propelled)					
Complete bicycles and tricycles (other than children's with wheels smaller than 15 ins.)	3,786	30,380	49	2,628	19,132
Parts and accessories of cycles, sold separately	Tons			Tons	
Frames and frame tubes	329	243	22	254	145 48
Handlebars with or without brake fittings and head and bracket fittings	1,919 ..	800 241	11	239 ..	76(w) 238
Wheels and parts thereof, not included elsewhere (except types sold separately)	10,058 ..	1,275 606	17	7,988 ..	1,040 118
Hubs (other than for variable gears, including coaster hubs)	5,023	1,283	12	3,503	746
Free-wheels	5,233	671	7	3,747	415
Gear cases	1,763	439	7	999	228
Saddles	4,489	2,559	9	4,327	1,604
Mudguards	5,230 ..	484 230	15	7,787 ..	543 99
Bells	1,719 ..	121 276	12	3,314 ..	176 142
Inflators	6,409	708	9	5,811	632
Brakes and parts thereof (h)	..	717	12	..	..
Chain wheels and cranks (h)	..	1,082	..	..	..
Brackets and lugs (h)	..	529	5	..	4,554
Other parts and accessories, not elsewhere specified, including variable gears and pedals (u)	..	4,129	63	..	..
Unclassified parts and accessories	..	875	35	..	1,703
Total parts and accessories of cycles		17,270	..		12,508

TABLE 8 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Thous.	£'000	No.	Quantity	£'000
Sparkling plugs for aero-engines	513	402	..	..	(1)
Trailers and caravans, complete	No.			No.	
Trailers					
For industrial trucks	5,995	536	18	1,489	153
Goods carrying, car type	1,966	94	17	..	..
Goods carrying, semi-trailers	5,142	2,070	19	18,648	3,492(x) 847
Other					
Of a capacity not exceeding 5 tons	4,887	684	45	..	..
Of a capacity exceeding 5 tons	2,190	880	12	..	..
Caravans	18,195	6,559	72	3,145	1,389 180
Parts of trailers and caravans (h)	..	1,525	46	..	486
Waste products other than scrap metals	..	218	87	..	270
Work done for the trade or on commission (y)		3,762	121	..	1,881
Research and development work (h) (y)		221	..	..	..
Total		725,370	..		442,150
Sales in other trades (see Table 9)		29,969	..		21,438
Principal products of this trade sold by establishments in the trade		695,401	905		420,711

- (a) Including, for 1951, sales by larger establishments in Northern Ireland classified to other trades.
(b) The 1948 figures exclude taxis.
(c) The 1948 figures are described as 'Chassis', and exclude chassis for taxis.
(d) For steam driven commercial vehicles see the Railway Locomotive Shops and Locomotive Manufacturing Trade (Volume 3, Trade L).
(e) Of the output of passenger vehicles and chassis, 7,891 are recorded as fitted with compression-ignition engines in 1951 and 7,216 are recorded as fitted with heavy-oil engines in 1948.
(f) Recorded as:-

	No.	£'000
Other goods vehicles with internal combustion engines, complete		
Over 15 cwt. but not exceeding 3 tons unladen weight		
With light-oil engines	30,066	13,658
With heavy-oil engines	1,229	1,293
Over 3 tons unladen weight		
With light-oil engines	4,528	2,492
With heavy-oil engines	2,023	3,442
Unclassified delivery vans and other goods vehicles with internal combustion engines, complete	930	491
(g) Of the total output of chassis for goods vehicles, 43,582 in 1951 and 48,395 in 1948 would, when complete with body, not exceed 3 tons unladen weight and 11,850 in 1951 and 4,881 in 1948, would exceed 3 tons unladen weight. (h) So far as recorded separately. (i) Described as 'Motor fire engines, fire escapes and trailer pumps', and so far as recorded separately. (j) Recorded as:-		
Unclassified cars, taxis and commercial vehicles	..	78
Invalid chairs, mechanically propelled, complete	2,167	216
(k) Described as 'Tri-cars, complete, passenger and goods'. (l) Not recorded separately. (m) Described as 'Panels for motor vehicles'. (n) Described as 'Sidecars'. (o) Excluding gear boxes for tractors. (p) Recorded as:-		

	Thous.	£'000
Carburettors for motor vehicles (excluding motor-cycles, tri-cars and tractors)	877	1,409
Gear boxes and carburettors for motor-cycles and tri-cars	..	612

(footnotes continued overleaf)

(q) Recorded as:-

	Tons	£'000
Brakes and parts thereof, other than linings containing asbestos, for motor vehicles (excluding motor-cycles, tri-cars and tractors)	{ 24,911	2,591
	..	4,013
Brake cables for motor vehicles except motor cycles, so far as recorded separately	..	242
Brake cable for motor-cycles	..	113

(r) Including sparking plugs for aircraft, so far as recorded separately.
 (s) For electrical instruments, see the Electrical Engineering (General) Trade (Volume 4, Trade K); for clocks, the Watch and Clock Trade (Volume 5, Trade I); for thermostats, the Scientific, Surgical and Photographic Instruments, etc. Trade (Volume 5, Trade H); and for pressure gauges, the Mechanical Engineering (General) Trade (Volume 4, Trade I).

(t) Described as 'Saddles'.
 (u) For transmission chains and ball and roller bearings, see the Mechanical Engineering (General) Trade (Volume 4, Trade I); for electrical equipment, the Electrical Engineering (General) Trade (Volume 4, Trade K); for springs, the Chain, Nail, Screw and Miscellaneous Forgings Trade (Volume 5, Trade C); for brake and clutch linings containing asbestos, the Asbestos Trade (Volume 7, Trade A); and for rubber tyres and tubes, the Rubber Trade (Volume 11, Trade A).

(v) Including reconditioned motor vehicle parts and accessories.

(w) Head and bracket fittings only.

(x) Recorded as:-

	No.	£'000
Trailers for road use	{ 18,648	3,492
	..	693
Reconditioned trailers and trailer-caravans and trailer fire-pumps	..	154

(y) Amount charged.

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

Larger establishments in Great Britain (a)

TABLE 9

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicles, (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles					
Complete cars and taxis exceeding 1,900 c.c. but not exceeding 2,800 c.c.; fire engines, ambulances etc.; other motor vehicles, not elsewhere specified, including electrically propelled cars, mechanically propelled invalid carriages and bath chairs; and reconditioned motor vehicles	..	2,011	14	..	1,508(b)
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor					
Public service passenger vehicles with internal combustion engines, complete					
Single deck					
Double deck					
Delivery vans and dual purpose vehicles (utilities) with internal combustion engines, complete					
Other goods vehicles with internal combustion engines, complete					
Exceeding 3 tons unladen weight	531	948	7	2,239	2,045(c)
With compression-ignition engines					
Electrically operated goods vehicles (other than industrial trucks)					
Complete vehicles					
Chassis with engines					

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TABLE 9 (contd.)

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	No.	£'000	No.	No.	£'000
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles (contd.)					
Tractors (including three-wheeled tractors but excluding works tractors)					
Complete					
Track-laying	1,505	482	7	552	149
Wheeled and half-track					
Agricultural and market garden types					
With internal combustion engines					
Under 10 h.p.	2,433	224	6		
10 h.p. and over				407	369
Other types (except motive units for articulated vehicles)	5,107	3,571	7		
Industrial and works trucks and works tractors (of the types used in factories, warehouses, railway stations and docks)					
Complete					
Trucks					
Fork lift	313	429	8		
Platform and other					
Electrically operated	309	217	..	1,364	626
With internal combustion engines	1,168	503	..		
Motor cycles and three-wheeled vehicles					
Complete motor cycles (including auto-cycles, miniature motor cycles and motorised bicycles)					
Exceeding 100 c.c. but not exceeding 350 c.c.					
Three-wheeled vehicles and chassis with engines (including motor cycle combinations but excluding tractors)	841	76	..	..	73(d)
Passenger					
Motor vehicle and motor cycle parts and accessories					
Parts and accessories of motor vehicles (except chassis with engines), sold separately					
Motor bodies complete					
For cars and taxis	1,327	229	16	810	342
For commercial vehicles				..	7
Passenger vehicles other than trolley buses	772	1,858	5	955	1,350
Trolley buses and passenger vehicles, unclassified	288	327	19	-	-
Delivery vans (including utilities)	1,749	401	123	2,185	361
Other goods and commercial vehicles	2,717	704	188	726	403(e)
	..	320		..	40
Unclassified	-	-	-	2,652	595
				..	117
Cabs for goods vehicles	531	56	12	..	(f)
Other parts of motor bodies					
Sheet metal (bonnets, wings, petrol tanks, etc.) not elsewhere specified	..	89	16	..	546
Motor body shells				..	(f)
Panels for goods vehicles	..	563	18	No. of sets	12
Other				..	549

(94544)

TABLE 9 (contd.)

	1951			1948	
	Quantity No.	Value £'000	Entries No.	Quantity No.	Value £'000
Motor vehicle and motor cycle parts and accessories (contd.)					
Parts and accessories of motor vehicles (except chassis with engines), sold separately (contd.)					
Internal combustion engines, complete					
Compression ignition					
Other					
For motor vehicles (including tractors and electrically driven vehicles)	39,678	942	8	4,523	353
For motor cycles and three-wheeled vehicles, other than tractors	..	84			
Less than 50 c.c.					
Parts of engines, not elsewhere specified	..	4,433	24	..	1,533
Reconditioned engines					
Wheels and parts thereof, not included elsewhere (except tyres sold separately)					
For motor vehicles (including tractors and electrically driven vehicles), other than motor cycles and three-wheeled vehicles				Tons	
				267	18(g)
Steering gears and parts, including steering wheels for motor vehicles and tractors	..	466	5		
Axles				No.	
Gear boxes for motor vehicles (including tractors and electrically driven vehicles) other than motor cycles and three-wheeled vehicles	6,312	240	6	2,029	136
	..	319		..	52
				Tons	
Brakes and clutches and parts thereof, other than linings containing asbestos	438	255	9	464	148
	..	364		..	264
Gaskets and jointings	1,238	752	15	758	327
	..	219		..	91
				Thous.	
Radiators and radiator blocks	..	123	6	42	333(h)
Registration plates of all kinds	..	13	..	..	58
Parts of tractors, not elsewhere specified	..	966	98	..	702(i)
Windscreens, windshields, etc.	..	45	..	..
Other parts and accessories, including chassis without engines; sidecars and side-car chassis and bodies; carburettors; windscreen wipers and parts thereof; speedometers; shock absorbers and dampers; tipping gears and parts thereof; chassis frames and components; and silencers and parts thereof	..	3,187	42	..	4,273
Unclassified parts and accessories	..	2,554	133	..	2,492
Cycles (not mechanically propelled)					
Complete bicycles and tricycles (other than children's with wheels smaller than 15 ins.)				10	46
Parts and accessories of cycles, sold separately					
Hubs	..	729	10		
Saddles					
Bells					
Other parts and accessories, not elsewhere specified, including variable gears; pedals; and brakes and parts thereof; but excluding frames and frame tubes; handle-bars with or without brake fittings and head and bracket fittings; wheels and parts thereof, not included above (except tyres sold separately); free wheels; gear cases; mudguards; inflators; chain wheels and cranks; and brackets and lugs	..	316	10	1,641	99
				..	920

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TABLE 9 (contd.)

	1951			1948	
	Quantity	Value £'000	Entries No.	Quantity	Value £'000
Cycles (not mechanically propelled) (contd.)					
Parts and accessories of cycles, sold separately (contd.)					
Unclassified parts and accessories	..	132	9	..	214
Trailers and caravans, complete	No.			No.	
Trailers					
For industrial trucks	425	37	6	710	192(j)
Goods carrying, all types	..	43	5	..	28
Other, of a capacity not exceeding 5 tons					
Caravans	518	191	8	25	11
Parts of trailers and caravans	..	253	7	..	10
Work done for the trade or on commission, and research and development work (k)		298	15		14
Total		29,969	..		21,438

(a) Including, for 1951, sales by larger establishments in Northern Ireland classified to other trades.

(b) Recorded as:-

	£'000
Complete cars (excluding taxis and tri-cars)	1,366
Exceeding 1,200 c.c. but not exceeding 4,300 c.c.	48
Unclassified cars, taxis and commercial vehicles, complete	94
Reconditioned motor vehicles	

(c) Recorded as:-

	No.	£'000
Passenger vehicles with internal combustion engines, complete, designed to seat not more than 60 passengers	123	499
Electric trolley buses, chassis	41	78
Delivery vans and dual purpose vehicles (utilities) with internal combustion engines, complete	142	67
Other goods vehicles with internal combustion engines, complete		
With light-oil engines	440	206
With heavy-oil engines	371	608
Unclassified delivery vans and other goods vehicles, with internal combustion engines, complete	397	323
Electrically operated goods vehicles (other than industrial trucks), complete	662	190
Other commercial motor vehicles, complete	63	74

(d) Described as 'Motor-cycles and tri-cars; and invalid chairs, mechanically propelled, complete'.

(e) Including bodies for trolley buses.

(f) Not recorded separately.

(g) Described as 'Wheels and parts thereof, not included elsewhere, (except tyres and tubes), for motor vehicles (excluding motor-cycles, tri-cars and tractors)'.

(h) Described as 'Radiators'.

(i) Including reconditioned motor vehicle parts and accessories.

(j) Recorded as:-

	No.	£'000
Trailers for road use	394	172
Trailers for industrial trucks	316	20

(k) Amount charged.

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Sales in the trade of other than principal products
Larger establishments in Great Britain

TABLE 10	£'000	
	1951	1948
Aero-engines and parts	860	525
Other aircraft parts and accessories	3,978	3,634
Children's cycles and parts	474	440
Electrical equipment for motor vehicles and cycles	1,123	648
Electrical machinery and apparatus, and parts thereof	2,818	686
Marine machinery and parts	1,266	584
Scientific, surgical and photographic instruments, and parts	100	110
Rail vehicles, and steam driven road vehicles and road rollers, and parts	912	1,226
Non-mechanically propelled vehicles (except cycles), and parts	706	587
Engineers' tools	1,895	2,692
Agricultural machinery and parts	4,919	1,527
Civil engineering and contracting machinery and plant, and parts	822	275
Food preparation and processing machinery, and parts	407	389
Prime movers and parts	3,870	1,922(a)
Metal furniture and parts	1,348	954
Arms, ammunition and naval, military and air force stores	4,606	
Other engineering products	5,816	
Other manufactures of iron and steel		10,124
Castings	252	
Forgings	740	
Other	1,711	
Other manufactures of non-ferrous metals	877	1,456
Manufactures of wood	222	1,147
Brake and clutch linings containing asbestos	335	
Other goods, including sales of electricity, steam and water	2,602	1,584
Scrap metals sold		
Iron and steel	1,651	873
Other scrap metals	2,930	1,052(b)
Repair work (c)		
To motor vehicles, including motor cycles	7,631	6,734
To other cycles	45	32
To other vehicles	770	197
Other	1,236	608
Iron and steel structural work (c)		
As main contractors	24	(d)
As sub contractors	16	(d)
Total iron and steel structural work	40	(d)
Less value of goods used in the work and recorded as sales in the trade	5	(d)
Total iron and steel structural work, excluding the value of goods used in the work and recorded as sales in the trade	35	(d)
Research and development work for the engineering and aircraft trades (c)	328	(d)
Other work done (c)	458	350
Total	57,743	40,356

(a) Described as 'Internal combustion engines, other than for motor vehicles and aircraft, and parts

(b) Recorded as:-

Scrap metal sold	
Aluminium	£130,000
Brass	310,000
Copper	224,000
Other and unclassified	388,000

(c) Amount charged.

(d) Not recorded separately.

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

TABLE 11

	Production (b)(c)	Exports (d)	Retained imports (e)
	No.	No.	No.
Cars and taxis (excluding utilities and three-wheeled vehicles) and chassis with engines therefor (f)(g)			
Complete cars and taxis			
Not exceeding 1,000 c.c.	{ 1951 55,106	41,041	..
1948 48,750		17,579	..
Exceeding 1,000 c.c. but not exceeding 1,600 c.c.	{ 1951 258,663	186,987	..
1948 182,539		140,173	..
Exceeding 1,600 c.c. but not exceeding 2,200 c.c.	{ 1951 77,880	42,339	..
1948 54,882		26,939	..
Exceeding 2,200 c.c. but not exceeding 2,800 c.c.	{ 1951 53,324	29,647	..
1948 13,153		6,307	..
Exceeding 2,800 c.c.	{ 1951 18,767	8,979	..
1948 8,076		2,997	..
Total complete cars and taxis	{ 1951 463,740	308,993	2,421
1948 307,400		193,995	162
1937 371,422		53,580	17,881
Chassis with engines therefor (g)			
Not exceeding 1,000 c.c.	{ 1951 -	1,520	..
1948 3,884		5,734	..
Exceeding 1,000 c.c. but not exceeding 1,600 c.c.	{ 1951 16,736	43,256	..
1948 8,513		21,615	..
Exceeding 1,600 c.c. but not exceeding 2,200 c.c.	{ 1951 1,267	9,707	..
1948 3,412		3,297	..
Exceeding 2,200 c.c. but not exceeding 2,800 c.c.	{ 1951 816	4,898	..
1948 1,751		1,225	..
Exceeding 2,800 c.c.	{ 1951 700	233	..
1948 524		146	..
Total chassis with engines therefor	{ 1951 19,519	59,614	1,299
1948 18,084		32,026	480
1937 30,737		24,455	709
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor (f)			
Public service passenger vehicles with internal combustion engines, complete	{ 1951 1,760	899	..
1948 1,361		1,086	..
Chassis with engines for passenger service vehicles	{ 1951 8,766	3,301	..
1948 11,709		2,874	..
Electric trolley buses			
Complete vehicles and chassis with engines	{ 1951 155	89	..
1948 607		149	..
Delivery vans and dual purpose vehicles (utilities) with internal combustion engines, complete	{ 1951 106,864	62,450	..
1948 60,688(h)		26,763	..
Other goods vehicles with internal combustion engines, complete			
Not exceeding 3 tons unladen weight			
With compression-ignition engines	{ 1951 763	60	..
1948 1,229(h)(i)		118	..
Other	{ 1951 62,725	1,925	..
1948 30,066(h)(i)		5,698	..
Exceeding 3 tons unladen weight			
With compression-ignition engines	{ 1951 1,493	623	..
1948 2,023(h)		598	..
Other	{ 1951 18,041	635	..
1948 4,528(h)		1,448	..

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TABLE 11 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	No.	No.	No.
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor (f) (contd.)			
Chassis for goods vehicles with internal combustion engines (excluding complete motive units for articulated vehicles)			
With compression-ignition engines	{ 1951 15,371 1948 5,547	10,891 4,978	....
Other	{ 1951 40,061 1948 47,729	55,086 30,466	....
Electrically operated goods vehicles (other than industrial trucks), complete	{ 1951 1,703 1948 4,056	47 68	....
Tractors (including three-wheeled tractors but excluding works tractors)			
Track-laying	{ 1951 5,711 1948 3,386 1937 ..	3,297 878 5	309 - 555
Wheeled and half-track			
Agricultural and market garden types with internal combustion engines	{ 1951 155,855 1948 118,587 1937 18,094(j)	112,659 67,726 10,489	109 1,760 2,594
Other types	{ 1951 2,273 1948 1,322(k) 1937 1,761(k)	509 770 640	9 10 91
Motor cycles and three-wheeled vehicles			
Complete motor cycles (including auto-cycles, miniature motor cycles and motorised bicycles)			
Not exceeding 100 c.c.	{ 1951 18,647 1948 20,498(l)	4,658 10,084	....
Exceeding 100 c.c. (including three-wheeled vehicles, passenger and goods)	{ 1951 163,343 1948 104,153	87,034 65,191	1,283(m) ..
Motor vehicle and motor cycle parts and accessories (n)			
Chassis without engines	{ 1951 125,531 1948 125,954	37 17	....
Engines			
For motor vehicles	{ 1951 225,170(l) 1948 111,934 1937 150,057	16,630 14,089 7,825	11,407 5,845 2,523
For motor cycles and three-wheeled vehicles	{ 1951 130,300(l) 1948 77,182 1937 41,802	27,102 9,537 5,622	.. .. 1
Wheels and parts thereof, not elsewhere specified (excluding tyres sold separately)			
For motor vehicles	{ 1951 116,490 1948 59,028 1937 39,257	8,967 3,343 1,185	.. 213 260
For motor cycles and three-wheeled vehicles other than tractors	{ 1951 2,010(l) 1948 1,738(l) 1937 950(l)	63 65 32	.. .. 1
Sparking plugs (other than for aircraft)	1951 42,774	23,066	..
Cycles (not mechanically propelled)			
Complete bicycles and tricycles (other than children's with wheels smaller than 15 ins.) (o)	{ 1951 3,786 1948 2,628 1937 2,057	2,738 1,804 831	- 1 1
Parts and accessories of cycles (n)			
Frames and frame tubes	{ 1951 243 1948 193 1937 360	170 178 321	.. 2 9
Free-wheels	{ 1951 671 1948 415	255 208	....
Handlebars with or without brake fittings and head and bracket fittings	1951 2,500(l)	529	..

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TABLE 11 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	£'000	£'000	£'000
Cycles (not mechanically propelled) (contd.)			
Parts and accessories of cycles (n) (contd.)			
Inflators	{ 1951 708 1948 632	232 212	.. 1
Saddles	{ 1951 4,489 1948 4,327 1937 3,329	982 772 644 -
Bells	{ 1951 397 1948 318	172 182	2 1
Wheels and parts thereof not elsewhere specified (except tyres sold separately)	{ 1951 1,881 1948 1,158 1937 500	729 709 243	138 25 33
Trailers and caravans	{ 1951 11,822 1948 5,907	1,513(p) 1,529(p)	.. ..

- (a) Figures of production (or sales) refer only to larger establishments. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Sales in 1951 and 1948, and production for sale in 1937.
- (c) Including production (or sales) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) Including unassembled parts of complete or substantially complete cars and chassis with engines prepared for export and re-assembly.
- (g) The sales of all taxis or chassis therefor in 1948 are included in the figures against the headings for the capacity range 'Exceeding 1,600 c.c. but not exceeding 2,200 c.c.'
- (h) The sales figures shown are exclusive of the output of delivery vans and other goods vehicles with internal combustion engines recorded as unclassified (amounting to 930 vehicles in total).
- (i) Described as 'Over 15 cwt. but not exceeding 3 tons unladen weight'.
- (j) Including track-laying tractors.
- (k) Described as 'Tractors for road haulage'.
- (l) Partly estimated.
- (m) Described as 'Motor cycles and motor tricycles.'
- (n) The sales (or production) figures shown may be understated on account of the large output recorded as unclassified parts and accessories (see Table 8).
- (o) The oversea trade figures include children's bicycles and tricycles.
- (p) Described as 'Trailers'.

Usage of certain specified purchased materials, 1951

Larger establishments in Great Britain

TABLE 12

Materials used	Quantity
	Th. tons
Iron	
Pig iron	88
Iron castings, in the rough	254
Non-alloy steel	
Ingots, billets, blooms and slabs	43
Angles, shapes and sections	69
Girders, joists, beams and pillars (not fabricated)	6
Bars and rods	164
Hoop and strip (including tape)	171
Tin - ., terne- and black-plates and sheets	124
Electrical sheets	1
Other plates and sheets	
1/8 inch thick and over	123
Under 1/8 inch thick	372

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TABLE 12 (contd.)

Materials used	Quantity
	Th. tons
Non-alloy steel (contd.)	
Tubes and fittings	63
Wire (single wire)	22
Forgings, in the rough (other than drop forgings)	12
Drop forgings	100
Castings, in the rough	21
Alloy steel (including high-speed steel)	
Ingots, billets, blooms and slabs	49
Bars, rods, angles, shapes, sections, girders, joists, beams and pillars (not fabricated)	57
Plates, sheet and strip	
1/8 inch thick and over	1
Under 1/8 inch thick	2
Tubes and fittings	2
Wire (single wire)	1
Forgings, in the rough (other than drop forgings)	9
Drop forgings	93
Castings, in the rough	3
Iron and steel not specified above, except finished parts and scrap	11
Non-ferrous metals in all forms, except finished parts and scrap	Th.cwts.
Aluminium and aluminium alloys	950
Brass and copper alloys, including nickel silver but excluding all other nickel alloys	455
Copper	248
Nickel and nickel alloys other than nickel silver	21
Zinc and zinc alloys	186
Timber (other than reclaimed), including that used for packing or packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th.cu.ft.
Hardwood	3,380
Softwood	6,630
Woven cotton cloth, including head linings	Th.sq.yds. 6,390

TABLE 13

Employment in September
Larger establishments (a)

(i) Operatives	Great Britain						Number
	1951(b)	1950(b)	1949(h)	1948(c)	1937(c)	1935(c)	
Males							
Under 18	10,348	10,498	10,370	10,621	21,323	16,957	
All ages	259,061	262,545	244,494	228,352	178,887	156,884	
Females							
Under 18	2,216	2,079	1,974	2,387	5,334	5,286	
All ages	42,079	40,477	36,201	36,740	23,629	22,418	
Total							
Under 18	12,564	12,577	12,344	13,008	26,657	22,243	
All ages	301,140	303,022	280,695	265,092	202,516	179,302	

TABLE 13 (contd.)

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

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	1,295	1,239	1,315	1,135	2,169	1,761	
All ages	39,945	37,960	36,269	33,320	21,619	18,278	
Females							
Under 18	3,257	2,994	2,665	2,714	2,661	1,926	
All ages	21,170	19,708	18,514	17,602	10,050	9,045	
Total							
Under 18	4,552	4,233	3,980	3,849	4,830	3,687	
All ages	61,115(e)	57,668(e)	54,783(e)	50,922(e)	31,669	27,323	

(iii) Total employees

	Great Britain						Number
	1951	1950	1949	1948	1937	1935	
Males							
Under 18	11,643	11,737	11,685	11,756	23,492	18,718	
All ages	299,006	300,505	280,763	261,672	200,506	175,162	
Females							
Under 18	5,473	5,073	4,639	5,101	7,995	7,212	
All ages	63,249	60,185	54,715	54,342	33,679	31,463	
Total							
Under 18	17,116	16,810	16,324	16,857	31,487	25,930	
All ages	362,255(e)	360,690(e)	335,478(e)	316,014(e)	234,185	206,625	

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

Canteen workers 145 Males 2,280 Females
Other workers 2,267 Males 1,102 Females

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

(c) Average for the year.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937 and October 12, 1935.

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

(iv) Working proprietors

	Great Britain				Number
	1951	1950	1949	1948	
Males	116	109	141	127	
Females	9	6	12	9	
Total	125	115	153	136	

Average employment
Larger establishments (a)

	Great Britain					Number
	1951	1950	1949	1948	1937	1935
Operatives	301,331	296,989	280,415	265,092	202,516	179,302
Administrative, technical and clerical employees	59,771	57,056	54,535	50,922(b)	31,669(b)	27,323(b)
Total	361,102	354,045	334,950	316,014	234,185	206,625

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

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

	Great Britain					
	1951	1950	1949	1948	1937	1935
Males	9	13	24	14	-	-
Females	115	97	72	88	-	-
Total	124	110	96	102	-	-

Shift working, 1951 (a)

Larger establishments in Great Britain

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	12,223	101,283	18
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	219,836	2,115,245	55
Other shift systems	67,192	639,428	35
Total	299,251	2,855,956	(b)

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift work	Total in trade	Total on returns showing shift work	Number employed on shift work
Number	905	100	301,140	183,386	59,712
Percentage of total in trade	100.0	11.1	100.0	60.9	19.8
Percentage of total on returns showing shift work				100.0	32.6

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

	Great Britain				£'000
	1951	1950	1949	1948	
Wages and salaries (a) of					
Operatives	127,784	118,532	106,226	93,714	
Administrative, technical and clerical employees	30,217	26,882	24,512	22,221	
Total	158,000	145,414	130,738	115,935	
Employers' contributions to all National Insurance Schemes	3,752	3,513	3,324(b)	2,403	

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

Great Britain				£'000
1951	1950	1949	1948	
11	9	8	10	

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

Larger establishments

	Great Britain			£'000
	1951	1949	1948	
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	18,110	10,629	12,404	
Second-hand	872	1,015	1,178	
Vehicles				
New	1,194	959	642	
Second-hand	190	109	74	
Total acquisitions	20,366	12,712	14,298	
Disposals				
Plant and machinery	498	680	474	
Vehicles	424	323	218	
Total disposals	922	1,003	692	
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	4,068	2,842	2,155	

MOTOR VEHICLES AND CYCLES (MANUFACTURING) TRADE

1951

Summary

Larger establishments

TABLE 18

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	755,074	13,686	6,417	775,177
Cost of materials and fuel used	481,845	8,368	3,946	494,159
Payment for work done on materials given out	10,297	166(a)	96(a)	10,423
Transport payments	4,057			4,192
Net output	258,875	5,152	2,376	266,403
Wages and salaries of persons employed	153,358	2,827	1,815	158,000
	No.	No.	No.	No.
Average number of persons employed (b)	347,966	8,148	5,113	361,227
	£	£	£	£
Net output per person employed (b)	744	632	465	737
	£'000	£'000	£'000	£'000
Stocks at end of year				
Products on hand for sale and work in progress	87,211	(a)	(a)	90,277
Materials and fuel	60,789	1,705	495	62,989
	No.	No.	No.	No.
Number of establishments	1,012	23	33	1,068

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

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of sales (see Table 20)	733,092	13,637	6,415	753,144
Changes in stocks and work in progress (see Table 21)	+ 21,982	+ 49	+ 2	+ 22,033
Gross output (production)	755,074	13,686	6,417	775,177
Materials and fuel used by firms in this trade				
Purchases	498,562	8,922	3,975	511,460
Changes in stocks (see Table 21)	- 16,717	- 554	- 30	- 17,301
Materials and fuel used	481,845	8,368	3,946	494,159

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

(b) Excluding outworkers but including working proprietors.

TABLE 19

Summary: Small firms (a)

	England	Wales	Scotland	Great Britain
Number of returns	653	36	51	740
Average number of persons employed (b)				
Males	3,317	169	274	3,760
Females	454	19	35	508
Total	3,771	188	309	4,268

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns.

(b) Including working proprietors.

Sales in the trade

Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000		£'000	No.	£'000
Principal products						
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles						
Cars and taxis (excluding utilities and three-wheeled vehicles), and chassis with engines therefor						
Complete cars						
Not exceeding 1,000 c.c.	55,106	13,441	-	-	55,106	13,441
Exceeding 1,000 c.c. but not exceeding 1,200 c.c.	163,082	47,733	-	-	163,082	47,733
Exceeding 1,200 c.c. but not exceeding 1,600 c.c.	95,581	31,332	-	-	95,581	31,332
Exceeding 1,600 c.c. but not exceeding 1,900 c.c.	817	643	-	-	817	643
Exceeding 2,800 c.c.	18,767	17,207	-	-	18,767	17,207
Chassis with engines therefor						
Exceeding 1,000 c.c. but not exceeding 1,200 c.c.	12,466	1,465	-	-	12,466	1,465
Exceeding 1,200 c.c. but not exceeding 1,600 c.c.	4,270	906	-	-	4,270	906
Exceeding 1,600 c.c. but not exceeding 1,900 c.c.	1,267	506	-	-	1,267	506
Exceeding 1,900 c.c. but not exceeding 2,200 c.c.						
Exceeding 2,200 c.c. but not exceeding 2,800 c.c.	816	289	-	-	816	289
Exceeding 2,800 c.c.	700	549	-	-	700	549
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor						
Chassis for passenger vehicles, with internal combustion engines						
Not exceeding 50 cwts. unladen weight	..	(a)	..	(a)	2,519	1,564
Exceeding 50 cwts. unladen weight	..	(a)	..	(a)	6,247	11,029
Electric trolley buses						
Complete vehicles	155	378	-	-	155	378
Chassis with engines						
Other goods vehicles with internal combustion engines, complete						
Not exceeding 3 tons unladen weight						
With compression-ignition engines	..	(a)	..	(a)	763	812
Other	62,725	26,640	-	-	62,725	26,640
Exceeding 3 tons unladen weight						
With other than compression-ignition engines	18,041	10,069	-	-	18,041	10,069
Chassis for goods vehicles, with internal combustion engines (excluding complete motive units for articulated vehicles)						
With compression-ignition engines	..	(a)	..	(a)	15,371	16,818
Other	..	(a)	..	(a)	40,061	16,848

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000		£'000	No.	£'000
Principal products (contd.)						
Motor vehicles (including electrically driven vehicles), other than motor cycles and three-wheeled vehicles (contd.)						
Commercial vehicles (other than taxis, three-wheeled vehicles, tractors and industrial trucks but including articulated, complete) and chassis with engines therefor (contd.)						
Public service passenger vehicles with internal combustion engines, complete						
Single deck						
Double deck						
Delivery vans and dual purpose vehicles (utilities), with internal combustion engines, complete						
Other goods vehicles with internal combustion engines, complete						
Exceeding 3 tons unladen weight, with compression ignition engines	..	(a)	..	(a)	111,515	40,246
Electrically operated goods vehicles (other than industrial trucks)						
Complete vehicles						
Chassis with engines						
Tractors (including three-wheeled tractors but excluding works tractors)						
Complete						
Track-laying	4,206	3,873	-	-	4,206	3,873
Wheeled and half-track						
Agricultural and market garden types						
With internal combustion engines						
Under 10 h.p.	19,378	1,461	-	-	19,378	1,461
10 h.p. and over	129,347	44,560	-	-	129,347	44,560
Other types (except motive units for articulated vehicles)						
Motive units for articulated vehicles	1,863	1,762	-	-	1,863	1,762
Industrial and works trucks, and works tractors (of the types used in factories, warehouses, railway stations and docks)						
Complete						
Trucks						
Fork lift	2,110	2,385	-	-	2,110	2,385
Platform and other						
Electrically operated	1,751	526	-	-	1,751	526
With internal combustion engines	1,281	174	-	-	1,281	174
Works tractors	529	374	-	-	529	374
Other motor vehicles, not elsewhere specified including complete cars exceeding 1,900 c.c. and not exceeding 2,800 c.c.; fire engines, ambulances, etc.; electrically propelled cars; mechanically propelled invalid carriages and bath chairs; and reconditioned motor vehicles	..	59,986	-	-	..	59,986

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000
Principal products (contd.)						
Motor cycles and three-wheeled vehicles						
Complete motor cycles (including autocycles, miniature motor cycles and motorised bicycles)						
Not exceeding 100 c.c.	18,647	764	-	-	18,647	764
Exceeding 350 c.c.	71,268	9,200	-	-	71,268	9,200
Exceeding 100 c.c. but not exceeding 350 c.c.						
Three-wheeled vehicles and chassis with engines (including motor cycle combinations but excluding tractors)	89,431	7,069	-	-	89,431	7,069
Passenger						
Goods	1,803	385	-	-	1,803	385
Motor vehicle and motor cycle parts and accessories						
Parts and accessories of motor vehicles (except chassis with engines), sold separately						
Motor bodies complete						
For cars and taxis	157,942	23,291	60	19	158,002	23,310
For commercial vehicles						
Trolley buses	170	363	-	-	170	363
Other passenger vehicles	5,952	11,307	163	343	6,115	11,650
Delivery vans (including utilities)	39,868	4,117	480	151	40,348	4,268
Other goods and commercial vehicles	36,803	5,095	395	93	37,198	5,189
Cabs for goods vehicles	..	617	..	40	..	657
Other parts of motor bodies	25,102	1,536	544	73	25,646	1,610
Sheet metal (bonnet, wings, petrol tanks, etc.), not elsewhere specified	..	(a)	..	(a)	..	8,139
Motor body shells						
Panels for goods vehicles	..	20,578	..	8	..	20,586
Other						
Internal combustion engines, complete						
Compression-ignition						
Other						
For motor vehicles (including tractors and electrically driven vehicles)	..	(a)	..	(a)	238,858	20,019
For motor cycles and three-wheeled vehicles other than tractors					..	922
Less than 50 c.c.						
50 c.c. but less than 100 c.c.	18,726	221	-	-	18,726	221
100 c.c. and over	36,339	723	-	-	36,339	723
Parts of engines, not elsewhere specified (b)	..	102	-	-	..	102
Reconditioned engines (b)	..	15,436	-	-	..	15,436
Wheels and parts thereof, not included elsewhere (except tyres sold separately)	Tons				Tons	
For motor cycles and three-wheeled vehicles, other than tractors	1,029	104	-	-	1,029	104
For other motor vehicles (including tractors and electrically driven vehicles)	..	99	-	-	..	99
Steering gears and parts, including steering wheels for motor vehicles and tractors	..	10,356	-	-	..	10,356

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000		£'000	No.	£'000
Principal products (contd.)						
Motor vehicle and motor cycle parts and accessories (contd.)						
Parts and accessories of motor vehicles (except chassis with engines), sold separately (contd.)						
Axles						
Gear boxes		(a)	..	(a)	191,297	6,009
For motor vehicles (including tractors and electrically driven vehicles), other than motor cycles and three-wheeled vehicles	..				..	3,970
For motor cycles and three-wheeled vehicles, other than tractors	50,112	406	-	-	50,112	406
Brakes and clutches and parts thereof, other than linings containing asbestos	..	(a)	..	(a)	41,121	7,001
					..	7,079
					4,228	2,082
Gaskets and jointings	..	(a)	..	(a)	..	1,062
Radiators and radiator blocks	..	7,037	-	-	..	7,037
	Thous.				Thous.	
Registration plates of all kinds	949	399	-	-	949	399
	..	84	-	-	..	84
Windscreens, windshields, etc.	..	(a)	..	(a)	1,443	2,413
					..	398
Sparking plugs, other than for aircraft	42,774	3,415	-	-	42,774	3,415
Instruments, other than speedometers, electrical instruments, clocks, thermostats and pressure gauges	..	3,663	-	-	..	3,663
Saddles and pillion seats	309	289	-	-	309	289
Heaters and parts thereof (b)	..	631	-	-	..	631
Tie rods, track rods and parts (b)	..	1,252	-	-	..	1,252
Flexible pipes and drives, and other pipes and tubes (b)	..	777	-	-	..	777
Parts of tractors, not elsewhere specified	..	(a)	..	(a)	..	5,161
Other parts and accessories, including chassis without engines; sidecars and sidecar chassis and bodies; carburetors; windscreen wipers and parts thereof; speedometers; shock absorbers and dampers; tipping gears and parts thereof; chassis frames and components; and silencers and parts thereof	..	(a)	..	(a)	..	55,993
Unclassified parts and accessories	..	(a)	..	(a)	..	27,928
Cycles (not mechanically propelled)						
Complete bicycles and tricycles (other than children's with wheels smaller than 15 ins.)						
Parts and accessories of cycles, sold separately	..	(a)	..	(a)	..	33,890
Hubs						
Saddles						
Bells						
	Tons				Tons	
Frames and frame tubes	..	(a)	..	(a)	329	243
Handlebars with or without brake fittings and head and bracket fittings	1,919	800	-	-	1,919	800
	..	241	-	-	..	241
Wheels and parts thereof, not included elsewhere (except tyres sold separately)	10,058	1,275	-	-	10,058	1,275
	..	606	-	-	..	606

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Thous.	£'000		£'000	Thous.	£'000
Principal products (contd.)						
Cycles (not mechanically propelled) (contd.)						
Parts and accessories of cycles, sold separately (contd.)						
Free-wheels	5,233	671	-	-	5,233	671
Gear cases	1,763	439	-	-	1,763	439
Mudguards	5,230	484	-	-	5,230	484
	..	230	-	-	..	230
Inflators	6,409	708	-	-	6,409	708
Chain wheels and cranks (b)	..	1,082	-	-	..	1,082
Brackets and lugs (b)	..	529	-	-	..	529
Other parts and accessories, not elsewhere specified, including variable gears; pedals; and brakes and parts thereof	..	4,530	-	-	..	4,530
Unclassified parts and accessories	..	743	-	-	..	743
Sparking plugs for aero-engines	513	402	-	-	513	402
Trailers and caravans, complete						
	No.				No.	
Trailers						
For industrial trucks	..	(a)	..	(a)	12,678	2,663
Goods carrying, all types	..		..
Other						
Of a capacity not exceeding 5 tons	..	(a)	..	(a)	4,887	684
					..	956
Of a capacity exceeding 5 tons	2,190	880	-	-	2,190	880
Caravans	..	(a)	..	(a)	17,677	6,368
Parts of trailers and caravans (b)	..	(a)	..	(a)	..	1,271
Waste products, other than scrap metals	..	218	-	-	..	218
Work done for the trade or on commission, and research and development work (c)		(a)		(a)		3,685
Total principal products		689,446		5,955		695,401
Other output						
Aero-engines and parts	..	860	-	-	..	860
Other aircraft parts and accessories	..	3,978	-	-	..	3,978
Children's cycles and parts	..	(a)	..	(a)	..	474
Electrical equipment for motor vehicles and cycles	..	1,123	-	-	..	1,123
Electrical machinery and apparatus, and parts thereof	..	2,818	-	-	..	2,818
Marine machinery and parts	..	1,266	-	-	..	1,266
Scientific, surgical and photographic instruments, and parts	..	100	-	-	..	100
Rail vehicles, and steam driven road vehicles and road rollers, and parts	..	912	-	-	..	912
Non-mechanically propelled vehicles (except cycles) and parts	..	(a)	..	(a)	..	706
Engineers' tools	..	1,895	-	-	..	1,895
Agricultural machinery and parts	..	4,919	-	-	..	4,919
Civil engineering and contracting machinery and plant, and parts	..	822	-	-	..	822
Food preparation and processing machinery, and parts	..	407	-	-	..	407
Prime movers and parts	..	3,870	-	-	..	3,870
Arms, ammunition and naval, military and air force stores	..	(a)	..	(a)	..	4,606
Other engineering products	..	5,816	-	-	..	5,816
Metal furniture and parts	..	1,348	-	-	..	1,348

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value £'000	Quantity	Value £'000	Quantity	Value £'000
Other output (contd.)						
Other manufactures of iron and steel			-	-	..	252
Castings	..	252	-	-	..	252
Forgings	..	740	-	-	..	740
Other	..	1,693	..	17	..	1,711
Other manufactures of non-ferrous metal	..	877	-	-	..	877
Manufactures of wood	..	222	-	-	..	222
Brake and clutch linings containing asbestos	..	335	-	-	..	335
Other goods, including sales of electricity, steam and water	..	2,602	-	-	..	2,602
Scrap metals sold						
Iron and steel	..	(a)	..	(a)	..	1,651
Other scrap metals	..	(a)	..	(a)	..	2,930
Repair work (c)						
To motor vehicles, including motor cycles		7,330		301		7,631
To other cycles		(a)		(a)		45
To other vehicles		(a)		(a)		770
Other		1,230		6		1,236
Iron and steel structural work (c)						
As main contractors		24		-		24
As sub contractors		16		-		16
Total iron and steel structural work		40		-		40
Less value of goods used in the work and recorded as sales in the trade		5		-		5
Total iron and steel structural work, excluding the value of goods used in the work and recorded as sales in the trade		35		-		35
Research and development work for the engineering and aircraft trades (c)		328		-		328
Other work done (c)		458		-		458
Total		746,728		6,415		753,144

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

(b) So far as recorded separately.

(c) Amount charged.

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

Larger establishments

TABLE 21

		£'000		
		England and Wales	Scotland	Great Britain
Products on hand for sale	{ at beginning of year	(a)	(a)	19,668
	{ at end of year	(a)	(a)	27,678
Work in progress	{ at beginning of year	(a)	(a)	48,576
	{ at end of year	(a)	(a)	62,600
Total products on hand for sale and work in progress	{ at beginning of year	(a)	(a)	68,244
	{ at end of year	(a)	(a)	90,277
Materials and fuel	{ at beginning of year	45,222	466	45,688
	{ at end of year	62,493	495	62,988

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

Employment in September

Larger establishments (a)(b)

TABLE 22

(i) Operatives

	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	10,101	247	10,348
All ages	255,259	3,802	259,061
Females			
Under 18	2,211	5	2,216
All ages	41,937	142	42,079
Total			
Under 18	12,312	252	12,564
All ages	297,196	3,944	301,140

(ii) Administrative, technical and clerical employees

	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	1,269	26	1,295
All ages	39,339	606	39,945
Females			
Under 18	3,205	52	3,257
All ages	20,711	459	21,170
Total			
Under 18	4,474	78	4,552
All ages (c)	60,050	1,065	61,115

(continued overleaf)

TABLE 22 (contd.)

(iii) Total employees

	England and Wales	Scotland	Great Britain
Males			
Under 18	11,370	273	11,643
All ages	294,598	4,408	299,006
Females			
Under 18	5,416	57	5,473
All ages	62,648	601	63,249
Total			
Under 18	16,786	330	17,116
All ages (c)	357,246	5,009	362,255

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchanting) are shown in Table 22(v) below.

(b) Number employed in the week ended September 22, 1951.

(c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

(iv) Working proprietors

	England and Wales	Scotland	Great Britain
Males	(d)	(d)	116
Females	(d)	(d)	9
Total	113	12	125

(v) Excluded employees

	England and Wales	Scotland	Great Britain
Canteen workers			
Males	(d)	(d)	145
Females	(d)	(d)	2,280
Total	(d)	(d)	2,425
Other workers			
Males	(d)	(d)	2,267
Females	(d)	(d)	1,102
Total	(d)	(d)	3,369
Total excluded employees	5,762	32	5,794

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

Average employment
Larger establishments (a)

	England and Wales	Scotland	Great Britain
Operatives	297,307	4,024	301,331
Administrative, technical and clerical employees	58,694	1,077	59,771
Total	356,001	5,101	361,102

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

	England and Wales	Scotland	Great Britain
Males	9	-	9
Females	115	-	115
Total	124	-	124

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

(94544)

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

Larger establishments

	England and Wales	Scotland	Great Britain
Wages and salaries (a) of			
Operatives	126,416	1,368	127,784
Administrative, technical and clerical employees	29,770	447	30,217
Total	156,185	1,815	158,000
Employers' contributions to all National Insurance Schemes	3,701	52	3,752

(a) Including bonus and commission payments, but excluding payments, amounting to £11,000 to outworkers in England and Wales.

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

Larger establishments

	England and Wales	Scotland	Great Britain
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	17,897	213	18,110
Second-hand	861	11	872
Vehicles			
New	1,191	3	1,194
Second-hand	188	2	190
Total acquisitions	20,136	230	20,366
Disposals			
Plant and machinery	497	2	498
Vehicles	420	3	424
Total disposals	917	5	922
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	4,057	11	4,068

(94544)

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

Larger establishments

	Great Britain(a)
Amounts paid to other firms and undertakings	3,945
Amount paid or credited to firms' own separate transport organisations	248
Total	4,192

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '...' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

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

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

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

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

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

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

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

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