

BOARD OF TRADE

# THE REPORT on the CENSUS OF PRODUCTION FOR 1951

Volume 11

Trade A

RUBBER

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

LONDON: HER MAJESTY'S STATIONERY OFFICE

1956

TWO SHILLINGS NET

11/A/1

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\* Not applicable to this trade

RUBBER TRADE

THIS REPORT on the Rubber Trade relates to establishments engaged wholly or mainly in the manufacture of solid and pneumatic tyres of all types and inner tubes, sheet rubber, sponge rubber, rubber tubing and hose, balata belting, rubber footwear, gloves, bathing caps, toys, balls, flooring and tiling, etc., including those made from synthetic rubber. The manufacture of synthetic rubber itself is excluded.

This trade corresponds to minimum list heading 190 in the Standard Industrial Classification.

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

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.

#### 11/A/3

# OTHER MANUFACTURING INDUSTRIES

#### RUBBER TRADE

#### Summary

#### Larger establishments (a)

T	A	B	LI	E

			Great I	Britain		
	1951	1950	1949	1948	1937	1935
	£°000	£.000	£.000	£.000	£,000	£.000
Gross output (production)(b)	259,191	162,069	118,782	128,023	34,205	27,539
Cost of materials and fuel used (c)	179.731	103,758	70,318	74,332	19,615	13,496
Payment for work done on materials given out Transport payments (d)	1,217 1,958	429	326	444		
Net output Wages and salaries of persons employed	76.284 37.950	57,881 31,762	48.139 28.043	53.247 27.860	14,548	14.028
	No.	No.	No.	No.	No.	No.
Average number of persons employed (e)	99,583	91.767	85,928	87,145	58,089	54,098
	£	£	£	£	£	£
let output per person employed (e)	766	631	560	611	250	259
	£,000	£,000	£,000	£'000	£.000	£'000
Stocks at end of year	al liberate de la constante de					
Products on hand for sale and work in progress Materials and fuel	18.297 35.671	10,820	7,932 12,616	7.220 14.100	•	:
Macerials and rues	No.	No.	No.			
Number of establishments	328	325	No. 315	No. 326	No.	No. 185

	£'000	£,000	£,000	£,000	£'000	£'000
Output of firms in this trade (f)						
Principal products (g) Other output (h) Changes in stocks and	243.843 7,954	160.036	119,185 {	121,573 5,173	31,683 2,522	26.044 1.495
work in progress (i)	+ 7,393	+ 2.916	+ 284	+ 1,894		
	259,191	162,952	119,469	128,640	04.005	07. 500
Less payment for transport outwards (d)		883	687	618	34,205	27,539
Gross output (production)	259,191	162,069	118,782	128,023	34,205	27,539
Materials and fuel used by firms in this trade						
Purchases Changes in stocks (i)	192,989 - 13,258	113,653 - 9,895	68.774 + 1.544	77,516 - 3,183	19,615	13.496
Materials and fuel used	179,731	103,758	70,318	74.332	19,615	13,496

 (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 trans-(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 numbers of persons employed in this trade see Table 3.
(f) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).
(g) For details for 1951 and 1948 see Table 8.
(h) For details for 1951 see Table 21.

(i) For details for 1951 see Table 21.

Summary: Small firms (a)

	Great B	ritain	United Kingdom	Great Britain	
	1951	1950	1949	1949	1948
Number of returns	185	192	240	232	205
Average number of persons employed (b)	S 424 - 24 1 1 - 244		F. 442 7 1		0.004.000
Males Females	789 270	794 239	969 293	940 288	8 49 238
Total	1,059	1,033	1,262	1,228	1.087

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.
 (b) Including working proprietors.

TABLE 3

#### Estimated average employment (a): All firms

Number

	Uni	ted Kingdom		Great Britain		
	1951	1950	1949	1949	1948	
As returned by firms					1 2 2 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Employing on the average more than ten persons (b) Employing on the average ten or fewer persons (c)	99,583 1,059(d)	91,767 1,033(d)	85,928 1,262	85,928 1,228	87.145 1.087	
The Control of the Co	100,642	92,800	87,190	87.156	88,232	
Estimated average employment in firms not making satisfactory returns	156	267	179	179	413	
Estimated average employment in all firms	100,798(d)	93,067(d)	87,369	87.335	88,645	

(a) Including working proprietors.
(b) See Tables 13(iv) and 14.
(c) See Table 2.
(d) Excluding any small firms in Northern Ireland.

#### Analysis by size, 1951

#### Larger establishments in Great Britain

TABLE 4

number employed  No.  11 - 24	The state of the state of					Remuneration			
number	Establish- ments	Gross output	Net output	Persons employed	Operatives	Other employees (a)	Total	Net output per person employed	
	No.	£,000	£,000	No.	£.000	£'000	£'000	3	
11 - 24	46	1.355	561	803	183	105	288	699	
	66	4,945	1,921	2,415	611	265	876	795	
50 - 99	66	9.544	3,985	4.774	1,306	514	1,820	835	
100 - 199	59	16.971	6.737	8.458	2,226	846	3.071	797	
	25	10,645	4,734	6.432	1.703	617	2,319	736	
	15	8,607	4,186	5,202	1,361	456	1,817	805	
400 - 499	11	8.372	3.441	4,943	1,318	441	1.759	696	
	111	13,924	4,681	6,757	1,573	708	2,281	693	
750 - 999	9	13,054	5,393	7.703	2.207	667	2.874	700	
1.000 - 1.499	9	27.490	9.502	11.028	3.022	1.049	4,071	862	
		20.784	4,846	8.044	2,386	652	3,038	602	
	3	30,026	7.864	10,022	3,151	963	4,113	785	
4,000 and over	4	93,473	18,431	23,002	7.486	2,137	9,623	801	
Total	328	259,191	76.284	99,583	28,532	9,418	37,950	766	

(a) Administrative, technical and clerical employees. (5536/2)

# Analysis by standard region, 1951

#### Larger establishments in Great Britain

TABLE 5

780 77 062			Net output			F	Not out out		
Region	Estab- lish- ments	Gross output	Value	Percent- age of total	Persons employed	Operatives	Other employees (a)	Total	Net output per person employed
England	No.	£,000	£'000		No.	£'000	£,000	£.000	£
Northern	6	723	314	0.4	544	106	35	141	577
East and West Ridings	10	3.047	1,510	2.0	1,634	388	173	561	924
North Midland	21	9,376	3,327	4.4	4,699	1,322	513	1.834	708
Eastern	17	5,121	2.221	2.9	2,536	731	255	986	876
London and South Eastern	100	44,609	15,456	20.3	19,622	5.406	2,023	7.429	738
Southern	12	2,995	1,652	2.2	1,892	538	209	746	873
South Western	16	8,632	2,251	3.0	3,839	1,155	345	1,500	586
Midland	29	86,795	19,027	24.9	22,137	7,123	2.245	9,367	8 5 9
North Western	83	72,315	23,087	30.3	30,479	8.642	2.549	11,192	7 57
Total England	294	233,612	68,846	90.2	87,382	25,410	8,348	33,758	788
Wales	13	2,518	592	0.8	1,654	384	159	543	3 58
Scotland	21	23,060	6,846	9.0	10.547	2,738	912	3,650	649
Great Britain	328	259,191	76,284	100.0	99,583	28,532	9,418	37.950	766

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in Great Britain

TABLE 6

			Sales of			R	emuneration	1	
	Establish- ments	Gross output	charac- teristic products	Net output	Persons employed	Operati <b>v</b> es	Other employees (a)	Total	Net output per person employed
200 M (200 M (20) M (200 M (20	No.	£,000	£,000	£,000	No.	£,000	£,000	£,000	£
Specialist producers of									
Rubber tyres and tubes	19	137,105	107,758	28,077	35,079	11.470	3,385	14.856	800
Rubber heels and soles	14	2,650	2,014	1,100	1,868	504	159	663	589
Machinery belting	15	20,654	15,127	7,152	5,236	1.445	645	2,090	1.366
Remainder of the trade	280	98,781		39,954	57.400	15,113	5.229	20,342	696
Total	328	259,191		76,284	99,583	28,532	9,418	37.950	766

(a) Administrative, technical and clerical employees.

## Total make of intermediate products Larger establishments in Great Britain

TABLE 7

water I water watered plant	Returne	d in this	trade	Returned in all trades			
	195	ı	1948	1951		1948	
	Quantity	Entries	Quantity	Quantity	Entries	Quantity	
1 1 1 200 1 200 1 1 1 1 1 200 1 1 1 1 1	Tons	No.	Tons	Tons	No.	Tons	
Principal products							
Sheets and sheeting wholly of rubber	1 9.880.4				* 92366	- Vanisti	
Mechanical	7,926		••	8.067		ab a	
Other	6,734			6,933			
Insertion sheeting	2,299	24	h d	2.299	24		
Rubber sheeting with a textile backing	209		4.669	217	m 0.04 m	4.669	
Cloth proofed with rubber	Th.sq.yds.		Th.sq.yds.	Th.sq.yds.		Th.sq.yds	
Hospital sheeting (including jaconet and batiste)	4.140	17	1,998	4.140	17	2.066	
Other, in single texture or double texture	60.452		36,970	60,646	42	37.664	
Threads wholly of rubber	Tons 1,934	6	Tons 2,600	Tons 1,934	6	Tons 2,600	
Reclaimed rubber	32.648		21,616	33.476	14	21,640	
Other products	Th.sq.yds.	1	Th.sq.yds.	200		1000	
Oilskin piece goods	415		1,982		William L	NAME OF THE OWNER, OWNE	

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

Larger establishments in Great Britain

TABLE 8

130 . 130 . 102	308	1951	re rangang	1948		
	Quantity	Value	Entries	Quantity	Value	
100 Maria 100 Ma	Tons	£,000	No.	Tons	£,000	
Sheets and sheeting wholly of rubber	398	wasta sings	a college		40 10 T	
The state of the s	2.122	636	41 {	1,862	334	
Mechanical	2,122	000	1 4	to restain opens	64	
Other	4,232	1.412	33 {	1,195	320 62	
response to the same and the same and	2.165	524	24	1.735	27.5	
Insertion sheeting					147	
Rubber sheeting with a textile backing	174	116	15	1,104	14/	
Cloth proofed with rubber	Th.sq.yds.	The same of the sa		Th.sq.yds.		
Hospital sheeting (including jaconet and batiste)	1.487	410	14	1.781	27 1	
Other, in single texture or double texture	18,587	4.096 877	31	25.270	2,654(a)	
Sheets, sheeting and cloth proofed with	162	87	10 {	360	109	
synthetic rubber	¥	144	J - 1	one	30	
	Tons	20 State 2002	har tagener	Tons	1 004	
Threads wholly of rubber	1.572	1.618	6	2.270	1,004	
Reclaimed rubber	28,664	2.196	9	19.239	1.009	
Rubber compound, sold as such	15,664	3.508	50	13,344	1.449	
Hose	* 787.1				20500	
Wholly of rubber, balata or gutta percha	1,135	248	15	1,481	146	
Fabric wrapped		2 3 3 3 3 3 3			33333	
Reinforced throughout with metal wire or strip, not wire braided	PAR.P	Control of the Control	at weeks			
Suction type	2,581	1,055	23	1.972	773	
Other	8 58	473	19 {	733	245 29	

(5536/2)

(5536/2)

TABLE 8 (contd.)

	and the supplies that	1951		R	948
	Quantity	Value	Entries	Quantity	Valu
	Tons	£'000	No.	Tons	£,00
Hose (contd.)	property and the second		To the second		
Fabric wrapped (contd.)	a parameter t				
Wire braided, with or without end fittings	7.932	962	11	)	
				3.510	1,547
Other fabric wrapped hose	3,085	1.467	23	John Charles	240
Other descriptions of hose	5,665	2,094	} 24 {	3.537	925
		249	4		123
Tubing wholly of rubber (other than for medical and surgical purposes)	1.195	469 120	39	1,503	391
Rubber tyres and tubes	Thous.			Thous.	11 200
Pneumatic					
Outer covers, new					
Giant tyres (including 5in. S.S.)	3,082	55,671	12	2.746	26,866
Tractor and dumper and earth mover		- The Company of	A Chear to a Page		12 L 18 19 19 19 19 19 19 19 19 19 19 19 19 19
vehicle tyres	667	8,818	8	686	4.285
Car (including taxi) tyres	6.654	28,257	13	5,978	13.597
Motor cycle and tri-car tyres	1.048	2,078	10	7 27	847
Pedal cycle tyres	14.804	4.622	8	14.124	2.610
Aeroplane tyres	94	969	5	51	413
Animal-drawn and similar vehicle tyres	218	1.093	5	148	502
Barrow, trolley and other tyres	437	563	11	341	236
Inner tubes		State of the same	14 10 to 1003		
For giant tyres (including 5in. S.S.)	2.302	3,523	11	2.078	1.734
For tractor and dumper and earth mover	Description of the latest telephone to the latest telephone to the latest telephone te	deres zon			
vehicle tyres	6 53	1.007	8	637	486
For car (including taxi) tyres	5,337	3,353	11	4.842	1.570
For motor cycle and tri-car tyres	908	347	9	663	131
For pedal cycle tyres	13.350	1.688	9	14.357	1.129
For aeroplane tyres	65	110	••	40	41
For animal-drawn and similar vehicle tyres	185	146	5	129	49
For barrow, trolley and other tyres	442	120	7	381	66
Cushion, sponge rubber and solid tyres, including solid tyring sold in the length	Tons			Tons	
For perambulators and other baby carriages	2.532	516	9		1 160
new y the castlest trees for	3.528	820			906
Other		174	25		
amelback and other tyre repair materials		3.503	13		1.206
ubber accessories for motor vehicles and cycles, not elsewhere specified	The state of the s		sens this	ufodil yazda	
For motor vehicles, including motor cycles and tri-cars	AL THE REAL PROPERTY.	5,667	63		2,309
For cycles		883	24		448
achinery belting			100000000000000000000000000000000000000		
Balata (including gutta percha) and canvas	1,039	1,375	10	1,532	1.285
Rubber or rubber and canvas	200			THE STATE OF THE S	
Conveyor and elevator	29,579	18,535	19	24,852	9,781
Power transmission	PERTANDATE OF		all	a su bina ina	BURGOOK TH
Motor vehicle fan belts	1,105	919	10	912	638
Other V-belts and round section belts	1,725	2.262	15 \$	1.006	918
· ·	•••	1.082	4		398
Other	2,340	2.018	16	1,902	1,110
ubber valves, washers and rings for industrial purposes (sold separately), not elsewhere specified	2,247	1.454	61 {	1.385	552 98
4	1	327	7 4	••	JA

TABLE 8 (contd.)

ABLE 6 (Conta.)		1951		1948		
Table .		1331		1340		
	Quantity	Value	Entries	Quantity	Value	
TOTAL CANCEL CONTRACTOR	Tons	£,000	No.	Tons	£.000	
Mats, matting, flooring and tiling of rubber,		4.4.0000	100000			
other than of sponge rubber			4	3.756	556	
Mats and matting	3.794	820	47		134	
Tiling and flooring (including sponge backed), covings and stair nosings	6.977	1.498	50	10,759	1,627	
Rubber boots	Th.doz.prs.			Th.doz.prs.		
Of a length (front of sole to heel tip) exceeding 11 inches			- 1			
Knee height or less	216	2.411	8			
Other and unclassified	56	741	6	195	1.501	
Wellingtons						
Of a length exceeding 9½ inches but not	the think are					
exceeding 11 inches	204	1.525	8	217	1.036	
Of a length not exceeding 9½ inches	403	1.975	10	317	904	
Other descriptions of rubber boots	99	7 07 96	11	57	259	
Rubber shoes		36	1			
Canvas shoes with rubber soles, without heels	1.364	3.974	13	946	1.965	
Canvas shoes with rubber soles and heels	214	1.128	12	236	797	
Other shoes of rubber and other materials	346	1.701	h			
and shoes wholly of rubber		195	18	528	1.780(ь)	
	Tons			Tons	Maria de acción de la companya del companya del companya de la com	
Rubber soles, full and half size, including combined soles and heels	5.592	1.911	33	3.946	1.144	
Rubber heels and heel tips	5,667	1.731	24	4,634	1,288	
mabber needs and need caps	Th.doz.prs.			Th.doz.prs.		
Rubber gloves and gauntlets	598	832	27	295	304	
	Th.doz.	126 (c)		Th.doz.		
Bathing caps and helmets		56	6	95	87	
Rubber balls						
Bladders (football, punchball, water polo,	199					
etc.)	126	140	11	229	206	
Playballs (including sponge rubber playballs) and other rubber balls for sports and games.	1000000					
including golf ball centres and uncovered	200		1			
tennis balls but not complete golf and tennis balls (d)	758	366 43	} 25 {	1,704	509 32	
Toys, wholly or mainly of rubber (excluding						
balls)						
Balloons	9.746	601	16	6.098	346	
Other	••	212	21	• •	241	
Hot water bottles	563	1.368	. 22	621	1.186	
Medical, surgical and dental products, other		2 340	43		1.682	
than sheeting and gloves	Tons	2,340	40	Tons	1,002	
Printers' rollers, blankets and roller	518	487	24	424	226	
covering materials		267	h A	_ ••	229	
Wringer rollers	Thous. 1,830	612	23	Thous.	214	
			1	100	133	
Industrial rollers	197	254	38 {		16	
	Th.gross			Th.gross	26.2	
Sealing and bottling rings	2.769	353	11	4,532	368	
Screw stoppers for bottles	485	209		477	196	

TABLE 8 (contd.)

Constitution of the second of		1951	1948			
autor de la company de la comp	Quantity	Value	Entries	Quantity	Value	
	Tons	£.000	No.	Tons	£,000	
Railway springs, buffer recoils and other rubber products for locomotives, carriages and wagons	2 152	1.070	22 {	1.855	<b>7-54</b> (e)	
Sponge and cellular rubber products, not elsewhere specified	1 1 187.5					
Mattresseş	3,117	1.537	6	5,412	1.800	
Other descriptions (including upholstery and cushions)	8,436	4.074 158	}			
Rubberised hair		355			(f)	
Vulcanite, ebonite and other hard rubber				8.863 2.0		
Sheets, rods and tubes	529 ••	352 81	} 10 {	497	280 23	
Battery boxes, plugs and lids	5.626	1.076 635	9		872	
Other manufactures of vulcanite, ebonite and other hard rubber, not elsewhere specified	3,157	1.380 266	} 32 {	2,537	6 92 277	
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber), sold as such	7,680 Thous.galls. 63	1,572	} 41 {	5.027	679 147	
Insulating materials	Th.sq.yds.		16. 14			
Cable cloth	17,315	1.766	5	13 1989.	(f)	
Varnished and non-adhesive cloth and tape (except cable cloth)	Tons 1.248	1.514	} 10 {	692	77 0 433	
Adhesive cloth and tape	1.739	7 46 259	10	1,331	465	
Other descriptions	78	34 816	10		(f)	
	342			Th.gross	0.0	
Rubber bands	•••	378 (c)	{	1,342	80 19	
Erasers		33(c)	{	281	147 15	
Pressure sensitive adhesive tape, e.g., masking tape used for sealing purposes (c)	861	918 494	5	10 A 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	1,214(g)	
Miscellaneous rubber goods, including adhesive cellulose tape and surgical tape	3,432	750 13,739	} 140 {	Tons 6,111	1.074 4.552	
Waste rubber	10,943	286 80	} 86 {	12.296	99 35	
Other waste products		295	41 {	1,255	6 48	
Work done for the trade or on commission (h)						
Tyres retreaded or remade	Thous.			Thous.		
Giant tyres (including 5 in. S.S.)	6 57	3,876	49	493	2,128	
Car (including taxi) tyres	1,251	3,061	51.	817	1.167	
Other tyres	53	317 63	16	32	100	

TABLE 8 (contd.)

1941	1951			1948	
the second of the second of the second	Quantity	Value	Entries	Quantity	Value
959 3		£,000	No.		£,000
Work done for the trade or on commission (h) (contd.)		1 2621 241 20127	pada ang		
Compounding of rubber		720	13		841
Rubber proofing		2,219	27		821(i)
Other work done		2.260	61		1,919
Total		251,418			126,913
Sales in other trades (see Table 9)		7.576			5,340
Principal products of this trade sold by establishments in the trade		243.843	291		121.573

Sales of principal products of the trade by establishments classified to other trades: Larger establishments in Great Britain

	Addition of the Comment	1951	1948		
and the same of th	Quantity	Value	Entries	Quantity	Value
and the state of t	Tons	£.000	No.	Tons	£.000
Sheets and sheeting wholly of rubber					
Mechanical	141	42		125	60
					124
Other	199	66			
Cloth proofed with rubber, in single texture or double texture, other than hospital sheeting (including jaconet and batiste), and sheets, sheeting and cloth proofed with synthetic rubber	Th.sq.yds.	1 08 946	} 6 {	Th.sq.yds. 742	104(α) 30
Machinery belting					
Balata (including gutta percha) and canvas; and power transmission, motor vehicle fan belts and other V-belts and round section belts of rubber or rubber and canvas	Tons	943		Tons	548(Ъ)
Rubber soles, full and half size, and rubber heels and heel tips, including combined soles and heels	••	126	5 {	67	25 116
Sponge and cellular rubber products, not else- where specified, including upholstery and cushions but excluding mattresses	57	26 54	}	Man a care	AND ELECTRICAL PROPERTY.
Vulcanite, ebonite and other hard rubber, excluding sheets, rods and tubes, battery boxes, plugs and lids	75	76 94	5		362
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber), sold as such	310	55		18 2 10 mm	
Insulating materials, including varnished and non-adhesive cloth and tape (except cable cloth), and adhesive cloth and tape; and pressure sensitive adhesive tape	1,398	1.473 504	} / ii {	8 52	725 234

<sup>(</sup>a) Including cable cloth.

(b) Including slippers and house shoes with soles of rubber returned by firms classified to the Boot and Shoe Trade (Volume 7. Trade L), which for 1951 are recorded as principal products in that trade.

Trade (Volume 7, Irade L), which for 1951 are recorded as principal products in that trade.

(c) So far as recorded separately.

(d) For golf balls and covered tennis balls see the Sports Requisites Trade (Volume 11, Trade E).

(e) Described as 'Railway springs, buffer recoils, buffers and other rubber products for locomotives, carriages and wagons, motor vehicles and aeroplames'.

(f) Not recorded separately.

(g) Described as 'Self adhesive tape for industrial purposes, other than insulating tape'.

(h) Amount charged.

(i) Described as 'Waterproofing'.

TABLE 9 (contd.)

The second secon	1951			1948	
	Quantity	Value	Entries	Quantity	Value
Part of the second seco		£,000	No.		£'000
Miscellaneous rubber goods including, for 1951, adhesive cellulose tape and surgical tape; rubber sheeting with a textile backing; reclaimed rubber; rubber compound, sold as such; rubber accessories for cycles; rubber valves, washers and rings for industrial purposes (sold separately), not elsewhere specified; mats and matting of rubber, other than of sponge rubber; rubber boots and shoes; rubber gloves and gauntlets; playballs					A STATE OF THE STA
(including sponge rubber playballs) and other rubber balls for sports and games, including golf ball centres and uncovered tennis balls; toys, wholly or mainly of rubber, other than balloons; medical, surgical and dental					
products other than sheeting and gloves;					
printers' rollers, blankets and roller covering materials; rubberised hair; and erasers	ari da kabi ara	3,062	24		2,999
Work done for the trade or on commission (including waterproofing) (c)		-	-		10
Total		7.576	••		5,340

(a) Including cable cloth.

(b) Described as 'Balata (including gutta percha) and canvas; and conveyor and elevator belting and motor vehicle fan belts of rubber or rubber and canvas:

(c) Amount charged.

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

TABLE 10

	195	1	1948	
	Quantity	Value	Quantity	Value
	Thous.	£.000	Thous.	£'000
Proofed, etc. garments	7 5 2	946	213	296
Proofed piece goods, other than rubber proofed	Th.sq.yds. 416	101 40	Th.sq.yds.	204
Golf balls and tennis balls, covered ready for use	Th.doz. 722 Th.cwts.	674	Th.doz. 635	522
Plastics materials	.37 .6.	649 449		
Manufactures of plastics materials, other than				988
garments and toys and games		744		
insulating materials other than cloth and tape	*··	219	10 10 10 10 10 10 10 10 10 10 10 10 10 1	488
Parts and accessories (not wholly of rubber) of motor vehicles (other than motor cycles) and pedal cycles		187	••	361
Chemical manufactures, including varnishes, dyes, stains, inks, polishes and artists' colours		511		303(a)
Boots, shoes, sandals and slippers, not mainly of rubber, and parts thereof	Th.pairs 35	31 59	}	106
Machinery, parts and accessories, other than moulds		6 56	L	562
Other engineering products		354	P I I I I I I I I I I I I I I I I I I I	
Synthetic rubber	Th.cwts.	84	1	1,321
Other goods	***	2,210		
Work done (b)		43		22
Total		7.954		5.173

(a) Described as 'Varnishes, dyes, stains, inks, polishes and artists' colours .
(b) Amount charged.

(5536/2)

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

TABLE 11

A CONTRACTOR OF THE PROPERTY O		Production (b)(c)	Exports (d)	Retained imports (e)
		Tons	Tons	Tons
	( 1951	15,000(f)	751	225
Sheets and sheeting wholly of rubber	1948	3.646(g)	702	292(h)
	C 1937	3,815	679	226
	£ 1051	£.000	£'000	£,000
Insertion sheeting	{ 1951 1948	524 275	134 61	
Rubber sheeting with a textile backing	{ 1951 1948	116 147	139 96	12(i)
Cloth proofed with rubber				9 (1986) 465(3)
Hospital sheeting (including jaconet and batiste)	{ 1951 1948	410 271	110 114	
Other, in single texture or double texture	{ 1951 1948	4.973 2.654(j)	1,883 1,155	
Sheets, sheeting and cloth proofed with synthetic rubber	{ 1951 1948	231 139	39 48	Light how to
Total insertion sheeting; rubber				
sheeting with a textile backing; clot proofed with rubber; and sheets,	h ( 1951	6,254	2,305	
sheeting and cloth proofed with	1948	3,486(j)	1,473	4
synthetic rubber	[ 1937	1,056	402	46
		Tons	Tons	Tons
hreads wholly of rubber	\$ 1951 1948	1,934(f) 2,600(f)	663 781	12
	1937	1.495(f)	489	57
and milker	( 1951	33,476(f)	4,367	147
eclaimed rubber	1948	21,640(f) 12,616(f)	1,969 3,973	3,062
ose and tubing				0,002
ose and tubing  Hose, wholly of rubber, balata or gutta	( 1951	1 125	1 110	
percha	1948	1,135	1,113	
Tubing, wholly of rubber (other than	J 1951	1,501(g)	99	
for medical and surgical purposes)	[ 1948	1,503	168	••
Total hose and tubing wholly of	₹ 1951 1948	2,636(g) 2,984	1,212	40
rubber, balata or gutta percha	1937	3,000(g)	911	27
Fabric wrapped hose		£,000	£,000	£,000
Reinforced throughout with metal				
wire or strip, not wire braided				Committee the
Suction type	1951	1,055	151	to a so to the second
	1948	773	151	••
Other	{ 1951 1948	473 274	141 51	and futaling
Other fabric wrapped hose, including				A CASE SEASON SERVICES
wire braided, with or without end fittings	{ 1951 1948	2,428	577	
	( 1951	1.787 2,343	442 223	
Other descriptions of hose	1948	1,048	140	
	( 1951	6,299	1,091	Sant Maria
Total hose not wholly of rubber	1948	3.882	784	4
	1937	250	144	26
ubber tyres and tubes (k)		Thous.	Thous.	Thous.
Pneumatic			Same and the same of the same	A SAN AND AND A SAN AND AND AND AND AND AND AND AND AND A
Outer covers	N. Carlotte			
Aeroplane tyres	£ 1951	94	27	1
	[ 1948	51	16	
Motor cycle and tri-car tyres	<b>₹</b> 1951 1948	1.048	211 130	- 1
	1937	441	49	12

(5536/2)

TABLE 11 (contd.)

		Production (b)(c)	Exports (d)	Retained imports (e)
Backerson and the second		Thous.	Thous.	Thous.
ubber tyres and tubes (k) (contd.)				
Pneumatic (contd.)				
Outer covers (contd.) Other motor vehicle tyres				
New				
Giant tyres (including 5in. S.S.)	§ 1951	3,082	1.034	
	[ 1340	2,746	537	100 A C 4 C 100 - 10 4 C 10
Tractor and dumper and earth mover vehicle tyres	{ 1951 1948	667 686	72 18	
Car (including taxi) tyres	{ 1951 1948	6.654 5.978	1.144 900	
Retreaded or remade	£ 1340	3,370	300	AND AND THE
Giant tyres (including 5in. S.S.)	ſ 1951	6 57	27	
Grant tyres (including Jin. 5.5.)	11948	493	9	
Car (including taxi) tyres	{ 1951 1948	1.251	88 10	
Other tyres	1951	64(g)(1)	1	
	1948	32(1)		••
Total other motor vehicle tyres		12,376(1)	2,365	16 39
	l 1937	7,178(1)(m)	1.377	114
Pedal cycle tyres	J 1951 1948	14,804	4,113 3,565	40 11
Pedal cycle tyres	1937	14,124 10,762	3,316	305
Animal drawn and similar vehicle tyres	s { 1951 1948	218 148	13 9	1 2
Barrow, trolley and other tyres	3 1951	437	101	100 - 100
	1948	341(n)	66	
Inner tubes	( 1951	65	20	
For aeroplane tyres	1948	40	11	-
Towards and the our turns	∫ 1951 1948	908 663	185 130	- 5
For motor cycle and tri-car tyres	1937	372	41	8
For other motor vehicle tyres				
For giant tyres (including 5in. S.S.	) 1 1951	2,302	779	
For tractor and dumper and earth	1948 1951	2.078 653	459 67	
mover vehicle tyres	1948	637	15	
For car (including taxi) tyres	{ 1951 1948	5,337 4,842	971 773	
	r 1951	8,292	1.817	2
Total inner tubes for other motor vehicle tyres	₹ 1948	7.557	1.247	62
	L 1937	5,032(0)	1,069	46
For pedal cycle tyres	∫ 1951 1948	13,350 14,357	2.712 3.419	3 136
	1 1937	9,838	2,325	308
For animal drawn and similar vehicle tyres	{ 1951 1948	185 129	7 10	
and the same of	1951	442	89	-
For barrow, trolley and other tyres	1 1948	381(p)	66	-
	. 1051	£.000	£'000	£.000
melback and other tyre repair materials	{ 1951 1948	3.503 1.206	708 146	
achinery belting		Tons	Tons	Tons
Motor vehicle fan belts of rubber, or	\$ 1951	1,105	197	
rubber and canvas	1 1948	913	80	

TABLE 11 (contd.)

		Production (b)(c)	Exports (d)	Retained imports (e)
Machinery belting (contd.)	TO SAID TO	Tons	Tons	Tons
Other belting of balata (including gutta percha) and canvas or of rubber, or rubber and canvas	<pre>{ 1951 1948 1937</pre>	35,508(g) 29,777(g) 11,522	3.635 2.129 2.402	8 4,609 471
Mats, matting, flooring and tiling of rubber, other than of sponge rubber		£,000	£.000	£, 000
Mats and matting	{ 1951 1948	820 689	147 64	man caracast and the
Tiling and flooring (including sponge backed), covings and stair nosings	{ 1951 1948	1.498 1.627	490 239	••
Total mats, matting, flooring and tiling of rubber (q)	<pre>{ 1951 1948 1937</pre>	2.318 2.317 565	637 302 52(r)	3(r) 10(r)
Aubber boots		Th.doz.prs.	Th.doz.prs.	Th.doz.prs.
Of a length (front of sole to heel tip) exceeding 11 inches Wellingtons	{ 1951 1948	272 195	59 26	56 19
Of a length exceeding 9½ inches but not exceeding 11 inches	{ 1951 1948	204 217	<b>4</b> 9 <b>1</b> 9	20 31
Of a length not exceeding 9½ inches	{ 1951 1948	403 317	7 5 23	40 42
Other descriptions	{ 1951 1948	112(g) 57	65 10	40 15
Total rubber boots	{ 1951 1948 1937	991(g) 786 273	248 78 16	156 107 304
ubber shoes			CONTRACTOR CONTRACTOR	a troppidate transport
Canvas shoes with rubber soles	{ 1951 1948	1,578	261 109	211 220
Other shoes of rubber and other materials and shoes wholly of rubber	{ 1951 1948	384(g) 528	56 11	30 8
Total rubber shoes	$ \left\{ \begin{array}{c} 1951 \\ 1948 \\ 1937 \end{array} \right. $	1,962(g) 1,710 1,788	317 120 51	241 228 604
aubber soles, full and half size, including combined soles and heels	{ 1951 1948	Tons 6,132(g) 4,346(g)	Tons 561 200	Tons - 5
subber heels and heel tips	<b>{</b> 1951 1948	5.667 4.634	508 206	3
Total rubber soles, heels and heel tips (s)	$ \left\{ \begin{array}{c} 1951 \\ 1948 \\ 1937 \end{array} \right. $	11,798(g) 8,980(g) 8,122	1,069 406 452	- 8 823
aubber gloves and gauntlets	{ 1951 1948 1937	Th.doz.prs. 598 295 130	Th.doz.prs. 194 66 13	Th.doz.prs. 5 101
Aubber balls		£.000	£'000	£,000
Bladders (football, punchball, water polo, etc.)	{ 1951 1948	140 206	57 44(t)	
Playballs (including sponge rubber play- balls) and other rubber balls for sports and games, including golf ball centres and uncovered tennis balls but not complete golf and tennis balls	{ 1951 1948	409 541	58 42	::
Total rubber balls for sports and games, including playballs but excluding complete golf and tennis balls	{ 1951 1948 1937	549 747 234	115 85 27	15(u) 20 25

9,542

TABLE 11 (contd.)

America and the second of the		Production (b)(c)	Exports (d)	Retained imports (e)
Toys, wholly or mainly of rubber (excluding balls)		£,000	£,000	£.000
Balloons	{ 1951 1948	601 346	120 43	William Zam
Other	{ 1951 1948	212 241	46 39	0.37 (S02.194) (17 (16) . (S4)
Total toys, wholly or mainly of rubber (excluding balls)	{ 1951 1948	813 587	166 82	.75(v) 12
Hot water bottles	{ 1951 1948 1937	Th.doz. 563 621 292	Th.doz. 66 87 27	Th.doz 3 21
Medical, surgical and dental products, other than sheeting and gloves	{ 1951 1948	£'000 2.340 1.682	£'000 406 270	£'000 10
ealing and bottling rings	{ 1951 1948	Th.gross 2,769 4,532	Th.gross 271 280	Th.gross
ponge and cellular rubber products of all descriptions, not elsewhere specified	{ 1951 1948	Tons 11.856(g) 5.424(g)	Tons 2,147 907	Tons (w)
ulcanite, ebonite and other hard rubber		£'000	£'000	£.000
Sheets, rods and tubes	{ 1951 1948	432 303	239 87	6 10 10 10 10 10 10 10 10 10 10 10 10 10
Other manufactures not elsewhere specified	i { 1951 1948	3.357 2.037	341 81	•••
Total vulcanite, ebonite and other hard rubber	{ 1951 1948 1937	3.789 2.340 727	580 168 16(*)	7(x) 1(x) 8(x)
Subber compound and adhesives (including processed latex adhesives and synthetic		Tons	Tons	Tons
latex adhesives made from synthetic rubber)	{ 1951 1948	23,933(g) 19,459(g)	2.085(y) 1.156	••

(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, except where otherwise stated. (c) Including production (or sales) by establishments classified to other trades.

(d) Valued f.o.b. (e) Valued c.i.f.

(f) Production for sale or for further manufacturing purposes in the same works.

(g) Partly estimated.

(h) Including synthetic rubber sheeting. (i) Described as 'Sheeting of rubber or synthetic rubber, with a textile backing'.

(j) Including cable cloth.

(k) The oversea trade figures include used tyres, whether reconditioned or not, but exclude tyres and tubes exported or imported with complete vehicles or chassis as part of their equipment, or fitted on wheels exported or imported separately.

(1) Including retreaded tyres other than for motor vehicles.

(1) Including retreaded tyres other than for motor ventcles.

(m) Including new aeroplame and horse-drawn vehicle tyres.

(n) Described as 'Barrow and trolley tyres'.

(o) Including inner tubes for aeroplame and horse-drawn vehicle tyres.

(p) Described as 'For barrow and trolley tyres'.

(q) Described as 'Mats, matting and tilling of rubber' in 1937.

(r) Excluding covings and stair nosings.
(s) Described as 'Rubber heels and soles' in 1937.

(t) Described as 'Football bladders'.

(u) Excluding playballs. (v) Including playballs.

(w) Re-exports in excess of imports.

(x) Described as 'In rods, tubes, sheets, etc., not elsewhere specified'.

(y) Described as 'Latex compounds and adhesives (rubber solution or latex)'.

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

TABLE 12

Materials used	Quantity
	Th.lbs.
Cotton yarn	14,214
Spun yarn of rayon, nylon, etc.	30
Continuous filament yarn of rayon, nylon, etc.	22,123
Woven cotton cloth	Th.sq.yds. 118.044
Woven cloth of rayon, nylon, etc. or of rayon, nylon, etc. mixed with materials other than silk	29,992
Zinc compounds	Th.cwts.

#### Employment in September

TABLE 13

#### Larger establishments (a)

		Great Britain								
	1951(b)	1950(b)	1949 (b)	1948(c)	1937 (c)	1935(c)				
Males										
Under 18	1,894	1,489	1,394	1,588	2,954	2,628				
All ages	55,800	51,286	45,909	49,772	29,957	28,021				
Females		A STATE OF THE STA	State Language State Nation							
Under 18	1,833	1,384	1,333	1.656	5,635	3,983				
All ages	26,985	24,602	22,624	22,246	18,005	16,535				
Total										
Under 18	3,727	2,873	2.727	3,244	8,589	6,611				
All ages	82,785	75,888	68,533	72,018	47,962	44,556				

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

1.616

18,957(e)

	180 ( 40 ( 1804)	Great Britain							
The state of the particular section	1951	1950	1949	1948	1937	1935			
Males									
Under 18	481	378	410	421	666	490			
All ages	12.217	11,141	10,522	9,937	6,868	6,578			
Females	The same of the sa								
Under 18	1,135	946	818	789	670	403			
All ages	6,740	5,963	5,561	5,163	3,259	2,964			

(continued overleaf)

16,083(e)

1,324

17,104(e)

1.210 15,100(e)

Under 18

All ages

TABLE 13 (contd.)
(iii) Total employee

		Great Britain						
		1951	1950	1949	1948	1937	1935	
Males Under 18 All ages Females		2.375 68,017	1,867 62,427	1,804 56,431	2,009 59,709	3,620 36,825	3,118 34,599	
Under 18 All ages	12.3.2.5.0000	2.968 33.725	2,330 30,565	2,151 28,185	2,445 27,409	6,305 21,264	4,386 19,499	
Total Under 18 All ages	4	5,343 101,742(e)	4,197 92,992(e)	3,955 84,616(e)	4,454 87,118(e)	9,925 58,089	7,504 54,098	

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

Canteen workers 57 Males 886 Females Other workers 769 Males 303 Females

- In week ended September 22, 1951, September 30, 1950, and September 24, 1949.
- Average for the year.
- In week ended September 22, 1951. September 30, 1950. September 24, 1949. September 25, 1948. October 16, 1937 and October 12, 1935.
- 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			Number				
Sanger Sulfaces in		Great Britain						
	1951	1950	1949	1948				
Males	18	20	20	24				
Females	2	3	4	3				
Total	20	23	24	27				

#### Average employment

#### Larger establishments (a)

TABLE 14	Le	irger establi	simerits (a)	VE # 15		Number		
	Great Britain							
	1951	1950	1949	1948	1937	1935		
Operatives Administrative, technical and	81,088	74,942	69,916	72,018	47,962	44,556		
clerical employees	18,475	16,802	15,988	15,100(b)	10,127(b)	9,542(b)		
Total	99.563	91.744	85,904	87,118	58,089	54,098		

- (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 Females	83 926	73 791	102 531	44 518	••	::			
Total	1,009	864	633	562		••			

#### Shift working, 1951 (a)

#### Larger establishments in Great Britain

TABLE 15

	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 Continuous 4 shift systems per 24 hours	86,668	694.698	57
averaging 6 hours per shift	-		100 100 100 100 100 100 100 100 100 100
All 2 shift systems	51,342	513,606	66
Other shift systems	6,070	54,424	17
Total	144.080	1,262,728	(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 Percentage of total in trade Percentage of total on returns	291 100.0	119 40.9	82,785 100.0	69,095 83.5	26.798 32.4
showing shift-work		ossissi '		100.0	38.8

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

#### Larger establishments

		Great Britain					
The state of the s	1951	1950	1949	1948			
Wages and salaries (a) of	The state of the s	A. C.	1967 10	Great they express to			
Operatives Administrative, technical and	28,532	24.035	21,019	21.539			
clerical employees	9,418	7.727	7.025	6,320			
Total	37,950	31,762	28,043	27.860			
Employers' contributions to all National Insurance Schemes	988	888	831	676			

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

£.000

Great Britain							
1951	1950	1949	1948				
99	78	66	67				

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

TABLE 17

£.000

	Great Britain				
	1951	1949	1948		
Plant, machinery and vehicles Acquisitions Plant and machinery	The second second				
New Second-hand Vehicles	4,931 192	4.384	3.791 196		
New Second-hand	351 136	216 32	192 61		
Total acquisitions	5,609	4.735	4,240		
Disposals Plant and machinery Vehicles	126 110	77 60	70 35		
Total disposals	236	137	106		
New building work Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	1,040	1.049	930		

#### COUNTRY TABLES

1951 Summary: Targer establishments

A	RI	F	1	R	

	England	Wales	Scotland	Great Britain
	£'000	£,000	£.000	£,000
Gross output (production)	233,612	2,518	23,060	259,191
Cost of materials and fuel used Payment for work done on materials given out Transport payments	161,795 1,153 1,818	1,915	16.085 129	179,731 1,217 1,958
Net output Wages and salaries of persons employed	68,846 33,758	592 543	6,846 3,650	76,284 37,950
	No.	No.	No.	No.
Average number of persons employed (a)	87,382	1,654	10,547	99,583
	£	£	£	3
Net output per person employed (a)	788	358	649	766
	£, 000	£,000	£.000	£,000
Stocks at end of year				
Products on hand for sale and work in progress Materials and fuel	16,080 30,971	170 839	2.047 3.861	18.297 35.671
	No.	No.	No.	No.
Number of establishments	294	13	21	328

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

	£:000	£.000	£.000	£,000
Output of firms in this trade				
Total value of sales (see Table 20)	226,924	2,419	22,455	251,797
Changes in stocks and work in progress (see Table 21)	+ 6,689	+ 100	+ 605	+ 7,393
Gross output (production)	233,612	2,518	23,060	259,191
aterials and fuel used by firms in this trade				
Purchases	172,858	2,583(b)	17.612(b)	192,989
Changes in stocks (see Table 21)	- 11,064	- 668	- 1,527	- 13,258
Materials and fuel used	161,795	1,915(b)	16,085(b)	179,731

(5536/2)

Summary: Small firms (a)

	England	Wales	Scotland	Great Britain
Number of returns	171	6	8	185
Average number of persons employed (b)			Askert Jeans Luc	88 88 JASA
Males	731	19	39	789
Females	2.56	10	4	270
Total	987	29	43	1,059

(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

	Larger	estanı
20		

FABLE 20	rger establ	shments	lukkár jukka	n has me	esi inilizedik	
article to the state of the sta	England a	nd Wales	Sco tl	and	Great	Britain
	Quantity	Value	Quantity	Value	Quantity	Value
SLE - 1 188 S	Tons	£'000	Tons	£'000	Tons	£,000
Principal products						
Sheets and sheeting wholly of rubber						
Mechanical	1.423	451	558	143	1,981	594
Other		(a)	* 21. 2 Days	(a)	4,033	1.347
Insertion sheeting	1,614	377	551	147	2.165	524
Cloth proofed with rubber	Th.sq.yds.		Th.sq.yds.		Th.sq.yds.	
Hospital sheeting (including jaconet and batiste)	1.061	307	427	102	1,487	410
Other, in single texture or double texture; and sheets, sheeting and cloth proofed with synthetic rubber	16.001	3.657	2.423	418 55	18.425	4,075
Threads wholly of rubber	Tons 1.572	1,618	Tons	removal sign	Tons 1.572	1,618
Hose						
Wholly of rubber, balata or gutta percha		(a)	to	(a)	1,135	248
Fabric wrapped					ara nasarika	
Reinforced throughout with metal wire or strip, not wire braided			Part Septime		o Sanda , produce Transportation	
Suction type	2.088	901	493	154	2.581	1,05
Other	786	443	72	30	8 5 8	47
Wire braided, with or without end fittings		(a)	double Flor	(a)	7.932	96:
Other fabric wrapped hose	2.850	1.360	235	107	3,085	1,46
Other descriptions of hose	5.604	2.078 249	61	16	5.665	2,09
Tubing wholly of rubber (other tham for medical and surgical purposes)	824	377 118	371	92	1,195	46 12
Rubber tyres and tubes	Thous.				Thous.	
Pneumatic	DEC. YE					
Outer covers, new			T. 364-5			
Giant tyres (including 5in. S.S.)		(a)		(a)	3,082	55,67
Tractor and dumper and earth mover vehicle tyres	1.1.	(a)	olumn an	(a)	667	8,81
Car (including taxi) tyres		(a)	200 · 150	(a)	6.654	28.25
Motor cycle and tri-car tyres		(a)		(a)	1.048	2.07
Pedal cycle tyres	14,804	4.622	-	-	14.804	4.62
Aeroplane tyres	94	969	93 8 8 7 10 13 13 13		94	96
Animal-drawn and similar vehicle tyres		(a)		(a)	218	1.09
Barrow, trolley and other tyres		(a)	Sandar Bao	(a)	437	56

<sup>(</sup>a) Excluding outworkers but including working proprietors.(b) Including payment for work done on materials given out.

TABLE 20 (contd.)

	England o	nd Wales	Sco t	Land	Great	Britain
ASPARA - Publisher Select	Quantity	Value	Quantity	Value	Quantity	Value
rincipal products (contd.)	Thous.	£,000		£,000	Thous.	£.000
Rubber tyres and tubes (contd.)			total bank		act the market	
Pneumatic (contd.)	1000					
Inner tubes	1966				The state of the s	
For giant tyres (including 5 in. S.S.)		(a)		(a)	2,302	3,523
For tractor and dumper and earth mover	. 790	(-)		(a)	6.53	1,007
vehicle tyres	200 Mg 12 10 10 10 10 10 10 10 10 10 10 10 10 10	(a) (a)	Special tens	(a)	5,337	3,353
For car (including taxi) tyres		(a)		(a)	908	347
For motor cycle and tri-car tyres	13,350	1.688	- 24	-	13,350	1,688
For pedal cycle tyres For geroplane tyres	65	110	-	-	65	110
For animal-drawn and similar vehicle	nead that the					
tyres		(a)		(a)	185	146
For barrow, trolley and other tyres	Con. • noit	(a)		(a)	442	120
Cushion, sponge rubber and solid tyres, including solid tyring sold in the length	Tons		Tons		Tons	
For perambulators and other baby carriages	2.532	516	-	•	2,532	516
Other		(a)		(a)	3,528	820 174
Camelback and other tyre repair materials		(a)		(a)	• • • • • •	3,503
Rubber accessories for motor vehicles, including motor cycles and tri-cars, not						re ditte
elsewhere specified	. •	(a)		(a)		5.667
Machinery belting						
Rubber or rubber and canvas	100 000	(a)		(a)	29.579	18,535
Conveyor and elevator	••	. (a)	er elder	The sale and a series	20,0,0	0.00
Power transmission, motor vehicle fan belts, and other V-belts and round section belts; and belting of balata (including qutta percha) and canvas		(a)		(a)	2,949	3.613 1,082
		(a)		(a)	2,340	2,018
Other power transmission Ciling and flooring (including sponge backed),	••	(4)		1	100	Hose
covings and stair nosings of rubber, other than of sponge rubber	5,480	1,187	1.497	311	6.977	1,498
Rubber soles, full and half-size, including combined soles and heels, and rubber heels and heel tips	1	(a)	1.2m 1020-00 E	(a)	11.245	3.638
ALL THE PROPERTY OF THE PARTY O	Th.doz.		Th.doz.		Th.doz.	3.00
Sathing caps and helmets	114	126 56	B -	- }	114	126 56
Rubber balls - bladders (football, punchball,		30	The state of the s		10013 AT 10	
waterpolo, etc.)	119	131	7	9	126	140
Toys, wholly or mainly of rubber - balloons	2 10.100	(a)	••	(a)	9,746	601
Hot water bottles	514	1.248	49	120	563	1,368
Security of the later in the		(-)	200 0000	(a)	Thous. 1,830	612
Wringer rollers	••	(a) (a)		(a)	197	254
Industrial rollers	Th.gross	(4)		(4)	Th.gross	
Sealing and bottling rings	in gross	(a)		(a)	2.769	353
Screw stoppers for bottles	485	209	-	-	485	209
Railway springs, buffer recoils and other rubber products for locomotives, carriages	Tons	(a)		(a)	Tons 2,152	1,070
and wagons Sponge and cellular rubber products, not	••	(4)	349	d the sale	2,102	
elsewhere specified Mattresses	3,117	1,537	-	•	3,117	1.537
Other descriptions (including upholstery					8,379	4.047
and cushions)		(a)	s a failater 3	(a)	6.373	104
Vulcanite, ebonite and other hard rubber		(-)	1200 145 34	(a)	529	352
Sheets, rods and tubes	• •	(a)	••	(4)		81

TABLE 20 (contd.)

Started Search	England	and Wales	Scot	land	Great	Britain
Secretary and the secretary and the secretary	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£,000	Tons	£,000	Tons	£,000
Vulcanite, ebonite and other hard rubber(contd)						
Battery boxes, plugs and lids	5,626	1,076	h	(	5,626	1,076
	••	635	J -	- 1	••	635
Other manufactures of vulcanite, ebonite and other hard rubber, not elsewhere specified	••	(a)	2000	(a) {	3,082	1.304 172
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber), sold as such	••	(a)	• • •	(a) {	7,384 Th.galls.	1,520
					Th.sq.yds.	
Cable cloth  Insulating materials, including varnished and non-adhesive cloth and tape (except cable cloth), and adhesive cloth and tape; and pressure sensitive adhesive tape, e.g.,	•	(α)	••	793 <b>(</b>	17,315 Tons 2,527	1.766
masking tape used for sealing purposes	••	2,405	•	/93 {		1,459
Rubber bands	••	378	-	-	••	378
Miscellaneous rubber goods, including adhesive cellulose tape and surgical tape; rubber sheeting with a textile backing; reclaimed rubber; rubber compound, sold as such; rubber accessories for cycles; rubber valves, washers and rings for industrial purposes (sold separately), not elsewhere specified; mats and matting of rubber, other than of sponge rubber; rubber boots and shoes; rubber gloves and gauntlets; playballs (including sponge rubber playballs) and other rubber balls for sports and games, including golf ball centres; toys wholly or mainly						
of rubber other than balloons; medical, surgical and dental products other than sheeting and gloves; printers' rollers, blankets and roller covering materials;	50,962	8.908	3,159	561	54.121	9,469
rubberised hair; and erasers		20,646		10,202	• • • • • • • • • • • • • • • • • • • •	30,848
Waste rubber		(a)		(a) {	10,943	286 80
Other waste products		(a)		(a)	*	295
Work done for the trade or on commission (b)	Thous.		Thous.		Thous.	
Tyres, retreaded or remade					60 KI 438W	
Giant tyres (including 5in. S.S.)	637	3.764	20	112	6 57	3,876
Car (including taxi) tyres	1,204	2,920	47	141	1,251	3,061
Other tyres	53	317 63	-	- {	53	317 63
Compounding of rubber		720				720
Rubber proofing		2,112		108		2,219
Other work done		2,231		29		2,260
Total principal products		222,917		20,926		243,843
Other output		W 198 199				
Proofed, etc. garments	252	202	501	743	752 Th.sq.yds.	946
Proofed piece goods, other than rubber proofed		(a)	••	(a) <b>{</b>	416	101 40
Golf balls and tennis balls, covered ready for use		(a)		(a)	Th.doz.	674
District Section				, , ,	Th.cwts.	649
Plastics materials	••	(a)	••	(a) {		449
Manufactures of plastics materials other than garments and toys and games		744	-	-		744

RUBBER COUNTRY TABLES

TABLE 20 (contd.)

	England	and Wales	Scot	Scotland		Britain
	Quantity	Value	Quantity	Value	Quantity	Value
	Th.pairs	£'000	· ·	£'000	Th.pairs	£'000
Other output (contd.)					Sometime bell	100000000000000000000000000000000000000
Insulating materials other than cloth and tape		219	a lain la	10 10 <u>1</u> 10 10	•	219
Parts and accessories (not wholly of rubber) of motor vehicles (other than motor cycles) and pedal cycles		187	in table 149		10 (S. 10 ) 1 S. 10 (S. 10 )	187
Chemical manufactures including varnishes, dyes, stains, inks, polishes and artists' colours		511				511
Boots, shoes, sandals and slippers, not wholly of rubber, and parts thereof	35	31 59	} -	-	35	31 59
	Th.cwts.				Th.cwts.	
Machinery, parts and accessories, other than moulds		6 56	Series - const	H-12 (10 T T A A A A	sthr. 2250	6 56
Other engineering products		354	-			354
Synthetic rubber	5.2	84	-	-	5.2	84
Other goods		1,935	****	275	1000	2,210
Work done (b)		43	1	-		43
Total		229,342		22,455	1.5 State (1.5 State )	251,797

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

(b) Amount charged.

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

#### Larger establishments

		England and Wales	Scotland	Great Britain
Products on hand for sale	at beginning of year at end of year	5,110 9,809	810 1,200	5,919 11,010
Work in progress	at beginning of year at end of year	4,352 6,441	633 847	4.985 7.288
Total products on hand for sale and work in progress	at beginning of year at end of year	9,462 16,250	1,442 2,047	10,904 18,297
Materials and fuel	at beginning of year at end of year	20,078 31,810	2,334 3,861	22.413 35,671

### Employment in September Larger establishments (a)(b)

TABLE 22

	England and Wales	Scotland	Great Britain
Males			The state of the s
Under 18	1,659	235	1,894
All ages	50,205	5,595	55,800
Females			
Under 18	1,430	403	1,833
All ages	24.197	2,788	26,985
Total			
Under 18	3,089	638	3,727
All ages	74,402	8,383	82,785

TABLE 22 (contd.)

(ii) Administrative, technical and clerical employees

	England and Wales	Scotland	Great Britain
Males			
Under 18	411	70	481
All ages	10,849	1,368	12,217
Females			
Under 18	932	203	1.135
All ages	5,921	819	6.740
Total			
Under 18	1,343	273	1,616
All ages (c)	16,770	2,187	18,957

(iii) Total employees Number Scotland Great Britain England and Wales Males 2.375 68.017 305 6,963 Under 18 2.070 61,054 All ages Females 2,968 Under 18 All ages 2,362 30,118 3,607 Total 5,343 101,742 4,432 91,172 911 10,570 Under 18 All ages (c)

(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 Females	16 2	2 -	18 2
Total	18	2	20

	England and Wales	Scotland	Great Britain
Canteen workers			
Males	54	3	57
Females	796	90	886
Total	850	93	943
			September 1988 AND AND AND AND ADDRESS OF THE PARTY OF TH
Other workers			769
Males	1,037	35	303
Females			
Total	1,037	35	1,072
Total excluded employees	1,887	128	2,015

#### Average employment

Larger establishments (a)

N		-	h	e	,
W	u	ш	v		۰

TABLE 23	England and Wales	Scotland	Great Britain
Operatives	72,710	8,378	81,088
Administrative, technical and clerical employees	16,308	2,167	18,475
Total	89,018	10,545	99,563

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

Outworkers. In addition to the employees shown above the firms in this trade employed 83 male and 926 female outworkers (all in England and Wales).

(5536/2)

(5536/2)

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

#### Larger establishments

TABLE 24			£.
	England and Wales	Scotland	Great Britain
Wages and salaries (a) of			7 1 1 A
Operatives	25,794	2.733	28,532
Administrative, technical and clerical employees	8,506	912	9,418
Total	34,301	3,650	37,950
Employers' contributions to all National Insurance Schemes	889	99	988

<sup>(</sup>a) Including bonus and commission payments but excluding payments amounting to £99,000 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 Second-hand Vehicles	4.556 182	37 5 10	4.931
New Second-hand	338 127	13 9	351 136
Total acquisitions	5,203	406	5,609
Disposals Plant and machinery Vehicles	107 108	19 2	126 110
Total disposals	214	22	236
New building work  Capital expenditure on new building and  other constructional work of a capital  nature (excluding site values and  development charges)	1,011	29	1.040

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

#### Larger establishments

TABLE 26			
	England and Wales	Scotland	Great Britain
Amounts paid to other firms and undertakings Amount paid or credited to firms' own	(α)	(a)	1.927
separate transport organisations	(a)	(a)	31
Total	1,830	129	1,958

<sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms separate particulars comnot be given.

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be nade 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 parti-

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 parttime employees.

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

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

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

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of 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, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed 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 exworks or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

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

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

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

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

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

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

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

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

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

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

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

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

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

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