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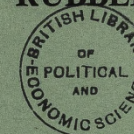
BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

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

1952

FOUR SHILLINGS NET

R 789
L 47
(42 251)
42
(HA 251)

STATISTICS
BACK-UP

S
42
[HA 25]

10.10.52

In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 6d. NET

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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, inner tubes, sheet rubber, sponge rubber, rubber tubing and hose, balata belting, rubber footwear, gloves, bathing caps, toys, balls flooring and tiling, etc. Goods made from synthetic rubber are included, but the manufacture of synthetic rubber itself is excluded.

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

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.

OTHER MANUFACTURING INDUSTRIES

RUBBER TRADE

Summary

Larger establishments

TABLE 1

	1948	1937	1935
	£'000	£'000	£'000
Gross output (production)	128,023	34,205	27,539
Cost of materials and fuel used	74,332	19,615	13,496
Payment for work done on materials given out	444	42	15
Net output	53,247	14,548	14,028
Wages and salaries of persons employed	27,860	..	..
	No.	No.	No.
Average number of persons employed (a)	87,145(b)	58,089	54,098
	£	£	£
Net output per person employed (a)	611	250	259
	£'000	£'000	£'000
Stocks at end of year			
Finished products and work in progress	7,220	..	..
Materials and fuel	14,100	..	..
	No.	No.	No.
Number of establishments	326	..	185

(a) Excluding outworkers.

(b) For an estimate of the total number of persons employed in this trade, see Table 3.

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

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	121,573	31,693	26,044
Other output (see Table 10)	5,173	2,522	1,495
Adjustment for changes in stocks and work in progress (see Table 14)	+ 1,894		
Less payment for transport by other firms	128,640 618	34,205	27,539
Gross output (production)	128,023	34,205	27,539
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	77,516	19,615	13,496
Adjustment for changes in stocks (see Table 14)	- 3,183		
Materials and fuel used	74,332	19,615	13,496

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	205
Average number of persons employed (a)	
Males	849
Females	238
Total	1,087

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	87,145
Employing on average ten persons or less (b)	1,087
	88,232
Estimated average employment in firms not making satisfactory returns	413
Estimated average employment in all firms	88,645

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
					£'000	£'000	£'000	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	61	1,181	586	1,068	224	106	330	549
25-49	64	3,031	1,545	2,218	484	196	680	697
50-99	68	6,201	2,903	5,023	1,182	369	1,550	578
100-199	54	9,021	4,545	7,778	1,738	615	2,353	584
200-299	26	6,739	3,363	6,271	1,369	456	1,826	536
300-399	10	3,687	1,958	3,574	821	263	1,084	548
400-499	9	4,018	2,281	3,898	892	280	1,172	585
500-749	11	7,217	3,666	6,641	1,575	395	1,970	552
750-999	6	6,634	3,151	5,298	1,149	501	1,650	595
1,000-1,499	6	12,129	5,219	7,496	1,720	564	2,284	696
1,500 and over	11	68,165	24,030	37,880	10,385	2,575	12,960	634
Total	326	128,023	53,247	87,145	21,539	6,320	27,860	611

Analysis by standard region, 1948

Larger establishment in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
			£'000	£'000		£'000	£'000	£'000
	No.	£'000	£'000		No.	£'000	£'000	£'000
England								
Northern	4	439	240	0.5	441	70	26	96
East and West Ridings of Yorkshire	11	1,430	801	1.5	1,205	285	102	387
North Midland	20	5,223	2,301	4.3	4,310	927	335	1,262
Eastern	21	2,813	1,460	2.7	2,389	574	220	794
London and South Eastern	101	21,920	10,200	19.2	15,952	3,962	1,387	5,350
Southern	15	1,434	913	1.7	1,626	387	128	515
South Western	16	4,331	1,699	3.2	3,667	920	255	1,175
Midland	29	41,239	15,218	28.6	19,864	5,593	1,612	7,205
North Western	79	36,538	15,586	29.3	27,071	6,261	1,726	7,987
Total England	296	115,365	48,418	90.9	76,525	18,978	5,791	24,769
Wales	7	506	177	0.3	620	124	41	165
Scotland	23	12,152	4,652	8.7	10,000	2,437	488	2,925
Great Britain	326	128,023	53,247	100.0	87,145	21,539	6,320	27,860

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
Specialist producers of	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Rubber tyres and tubes	19	63,651	52,396	22,180	31,635	8,835	2,482	11,317	701
Rubber heels and soles	10	1,520	1,143	884	1,496	313	85	398	591
Remainder of the trade	297	62,852		30,182	54,014	12,392	3,753	16,145	559
Total	326	128,023		53,247	87,145	21,539	6,320	27,860	611

Total make of intermediate products

Larger establishments

TABLE 7

	Returned in this trade				Returned in all trades		
	1948		1937	1935	1948		1935
	Quantity	Entries	Quantity		Quantity	Entries	Quantity
Insertion sheeting and rubber sheeting with a textile backing	Tons	No.	Tons	Tons	Tons	No.	Tons
	4,669	45			4,669	45	
Cloth proofed with rubber	Th. sq. yds.				Th. sq. yds.		
Hospital sheeting (including jaconet and batiste)	1,998	20	(a)	(a)	2,066	26	(a)
Other in single texture or double texture	36,970	37			37,664	46	
Rubber composition sheets for soling purposes	Tons				Tons		
	3,923	..			3,925	..	
Threads wholly of rubber							
For weaving, braiding and other textile purposes	1,667	..			1,667	..	
Other thread, strip or tape	933	8	974	819	933	8	1,012
Reclaimed rubber	21,616	..	12,314	9,308	21,640	..	9,575

(a) Not recorded.

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

Larger establishments

TABLE 8

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Sheets and sheeting wholly of rubber	Tons	£'000	No.	Tons	£'000	Tons	£'000
Mechanical	1,862	334	37	3,815	352(a)	2,765	234(a)
	..	64					
Other	1,195	320	26				
	..	62					
Insertion sheeting	1,735	275	25				
Rubber sheeting with a textile backing	1,104	147	16				
Cloth proofed with rubber	Th. sq. yds.			Th. sq. yds.		Th. sq. yds.	
Hospital sheeting (including jaconet and batiste)	1,781	271	24	23,336	1,056	19,040	831
Other, in single texture or double texture, including cable cloth	25,270	2,654	40				
Sheets, sheeting and cloth proofed with synthetic rubber	360	109	16				
	..	30					
Rubber composition sheets for soling purposes	Tons			Tons		Tons	
	3,782	616	28	..	(b)	..	(b)
Threads, wholly of rubber							
For weaving, braiding and other textile purposes	1,531	792	..				
Other thread, strip or tape	739	212	8	1,164	348	930	317
Reclaimed rubber	19,239	1,009	10	10,251	293	6,303	165
Hose							
Wholly of rubber, balata or gutta percha	1,481	146	18	1,182	84	1,448	79(c)
	Th. ft.			9,873		Th. ft.	
	11,492			1,377	42	777	28(c)
				..	30	-	-

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TABLE 8 (Contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Hose (contd.)	Tons	£'000	No.		£'000		£'000
Fabric wrapped							
Reinforced throughout with metal wire or strip, not wire braided							
Suction type	1,972 Th. ft. 4,349	773	25				
Other	Tons 733 Th. ft. 2,717 419	245	17				
Other fabric wrapped hose including wire braided, with or without end fittings	Tons 3,510 Th. ft. 22,384 4,882	1,547	34	Tons 6,425 Th. ft. 28,425	704 (d)	Tons 5,672 Th. ft. 24,741	681 (d)
Other descriptions of hose				Tons 373 ..	52 64	Tons 352 -	47 -
Wire braided	Tons 120 Th. ft. 806 278	91	8				
Other	Tons 3,127 Th. ft. 24,131 Tons 290 ..	729	24				
Tubing							
Wholly of rubber (other than for medical and surgical purposes)	Tons 1,331 Th. yds. 22,860 Tons 172	354	45	711	94 (e)	565	67 (e)
Rubber tyres and tubes							
Pneumatic							
Outer covers, new	Thous.			Thous.			
Giant tyres (including 5" S.S.)	2,746	26,866	11	1,659	6,897		

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
Rubber tyres and tubes (contd.)	Thous.	£'000	No.	Thous.	£'000	Thous.	£'000
Pneumatic (contd.)							
Outer covers, new (contd.)							
Tractor and dumper and earth mover vehicle tyres	686	4,285	6			6,223	10,685
Car (including taxi) tyres	5,978	13,597	13				
Aeroplane tyres	51	413	5				
Animal-drawn and similar vehicle tyres	148	502	..				
Motor cycle and tri-car tyres	727	847	10	441	237	452	247
Pedal cycle tyres	14,124	2,610	10	10,762	1,174	10,185	1,061
Barrow and trolley tyres	341	236	7	..	(b)	..	(b)
Inner tubes							
For giant tyres (including 5" S.S.)	2,078	1,734	10	1,282	609		
For tractor and dumper and earth mover vehicle tyres	637	486	6			4,473	1,071
For car (including taxi) tyres	4,842	1,570	11				
For aeroplane tyres	40	41	..				
For animal-drawn and similar vehicle tyres	129	49	..				
For motor cycle and tri-car tyres	663	131	8	372	45	363	43
For pedal cycle tyres	14,357	1,129	11	9,838	336	9,583	316
For barrow and trolley tyres	381	66	6	..	(b)	..	(b)

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	£'000	No.	Thous.	£'000	Thous.	£'000
Rubber tyres and tubes (contd.)							
Solid tyres							
Returned by number							
For commercial vehicles	39	147	..	28	100	18	51
For industrial trucks	362	155	21				
For perambulators and other baby carriages	5,893	338	11	7,727	165	6,721	252
Other (including rotary plants)	3,199	128	19	269	70		
Returned by weight	Tons	-	-	Tons		Tons	
Solid tyreing sold in the length and cushion and sponge rubber tyres	..	139	13	617	43	852	58
Rubber accessories for motor vehicles and cycles, not elsewhere specified							
For motor vehicles other than motor cycles and tri-cars	..	2,246	61	..	879	..	666
For motor cycles and tri-cars	..	63	13				
For cycles	..	448	22				
Rubber valves, washers and rings for industrial purposes (sold separately), not elsewhere specified	1,385	552	61	1,636	292	1,312	237
	..	98					
Machinery belting							
Balata (including gutta percha) and canvas	1,315	1,127	10	1,554	432	1,448	411
	Th. yds.						
	2,878						
	Tons	158					
	217						
Rubber or rubber and canvas							
Power transmission	1,902	1,110	12				
	Th. yds.						
	3,650						

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Machinery belting (contd.)							
Rubber or rubber and canvas (contd.)							
Conveyor and elevator	24,852	9,781	19	..	..	..	..
	Th. yds.						
	4,162						
	Tons						
	805	705	14	..	..	..	..
	Thous.						
	1,847						
V-belts and round section belts	201	213					
	Thous.						
	1,106	398				9,968	1,669(f)
	Tons						
	418	248	7	..	..	..	..
	Thous.						
	1,793						
Motor vehicle fan belts	494	390					
	Tons						
Other rubber or rubber and canvas machinery belting							
Under 12 inches wide	29	27	7	..	..	..	..
	..	4					
12 inches wide and over	14	12					
	..	2					
Mats, matting, flooring and tiling of rubber, other than of sponge rubber							
Mats	2,505	405	54	..	..	..	..
	..	134					
Matting	1,251	151	23				
Flooring and tiling, including sponge backed	10,218	1,529	45	..	..	..	..
	Th. sq. yds.						
	1,845						
	Tons						
Covings and stair nosings	541	98	25	..	..	..	..
	Th. yds.						
	512						

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. doz. prs.	£'000	No.	Th. doz. prs.	£'000	Th. doz. prs.	£'000
Rubber boots							
Of a length (front of sole to heel tip) exceeding 11 inches, including industrial types	195	1,501	15				
Wellingtons							
Of a length exceeding 9½ inches but not exceeding 11 inches	217	1,036	7	273	757	191	462
Of a length not exceeding 9½ inches	317	904	8				
Other descriptions	57	259	5				
Rubber shoes							
Bathing shoes, sandals and the like, wholly of rubber	24	33	5	239	211	205	142
Goloshes and overshoes of all descriptions, wholly of rubber	17	64	7	114	179	71	89
Canvas shoes with rubber soles, without heels							
Black or brown plimsolls (whether plain or speckled)	509	811	8	593	293	832	505
Other	437	1,154	14				
Canvas shoes with rubber soles and heels	236	797	15	842	908	822	844
Other, including shoes wholly of rubber and of rubber and other materials	487	1,683	33				
Rubber soles, full and half size, including combined soles and heels	3,946	1,144	31	8,122	809	7,013	760
Rubber heels and heel tips	4,634	1,288	22				
Rubber gloves and gauntlets							
Household	154	104	11				
Industrial	29	95	19	130	99 (h)	91	72 (h)
Surgical and medical	112	105	9				

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TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. doz.	£'000	No.	Th. doz.	£'000	Th. doz.	£'000
Bathing caps and helmets	95	87	13	54	19	64	26
Rubber balls							
Tennis balls, uncovered	109	18	5	597	77	483	60
Bladders (football, punch ball, water polo, etc.)	229	206	12	118	42(1)	142	44(1)
Other descriptions for sports and games, including golf ball centres but not complete golf and tennis balls (j)	515	80	20	147	28	150	24
Playballs (including sponge rubber playballs)	1,080	411	25	759	87	890	99
Other sports requisites of rubber (e.g., racket covers, rubber handles, etc.) (k)	-	-	-	..	40	..	28
Toys, wholly or mainly of rubber, except balls							
Balloons	6,098	346	20	2,350	52	3,008	57
Other	..	241	27	..	8	..	5
Hot water bottles							
Hand made fabric type	40	145	10	60	96(1)	64	94(1)
Moulded and latex dipped types	581	1,041	23	232	201	181	132
Other hot water goods, not elsewhere specified	..	2	5				
Air cushions (other than surgical), mattresses and other air-proofed goods, not elsewhere specified	..	56	9				
Medical, surgical and dental products, other than sheeting and gloves							
Medical and surgical tubes and tubing, including catheters	..	114	13				

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TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	£'000	No.		£'000		£'000
Medical, surgical and dental products, other than sheeting and gloves (contd.)							
Enemas	523	79	6	...	388	..	385
Bedpans	9	5	5				
Surgical cushions, other than of sponge rubber	89	41	12				
Bulbs of all kinds	1,898	89	9				
Teats and valves	51,035	231	14				
Pacifiers	3,540 ..	57 99	7				
Other, including prophylactics	..	967	35				
Vulcanite, ebonite and other hard rubber	Tons			Tons		Tons	
Sheets	181	108	9				
Rods	197 ..	99 23	9	736 ..	168 49	513	113
Tubes	119	73	7				
Battery boxes, plugs and lids	..	872	7				
Screw stoppers for bottles	Th. gross 477	196	4	3,459 ..	433 77	3,792	435
Other manufactures of vulcanite, ebonite and other hard rubber, except finished hair combs (m)	2,537 ..	692 277	31				
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber) sold as such	5,027 ..	679 147	42	4,874 ..	315 47 (n)	4,404	202 (n)
Rubber compound, sold as such	13,344	1,449	52				

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Tons	£'000
Sponge and cellular rubber products, not elsewhere specified							
Mats, matting, flooring and tiling (excluding sponge backed)	665	155	16				
Sponges	111 ..	56 6	10	1,858 ..	426 62 (o)	1,224 ..	257 40 (o)
Other descriptions, including mattresses, upholstery and cushions	4,636	1,589	33				
Insulating materials							
Adhesive cloth and tape	1,331	465	15	1,413	167	1,031	100
Varnished and non-adhesive cloth and tape	692 ..	770 433	10	669 ..	201 45	385 ..	102 101
Rubber bands	Th. gross 1,342 ..	80 19	10	..	80		
Erasers	281 ..	147 15	10				
Tobacco pouches and pouch linings	Th. doz. 9	8	8	Th. doz. 68	16 (p)		
Printers' rollers	Tons 169 ..	128 20	19			..	(b)
Printers' blankets	Th. sq. yds. 159	209	9	596 ..	162 90		
Roller covering materials	Tons 255	98	10				
Camelback and other tyre repair materials	..	1,206	14				
Balloons, including meteorological, but excluding toy balloons	..	41	6				
Wringer rollers	Thous. 969	214	28				

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Thous.	£'000	No.		£'000		£'000
Industrial rollers	100	133	35				
	..	16					
Sealing and bottling rings	Th. gross 4,532	368	13				
Self adhesive tape for industrial purposes, other than insulating tape (k)	..	1,214	6	..	2,291	..	1,996
Railway springs, buffer recoils, buffers and other rubber products for locomotives, carriages and wagons, motor vehicles and aeroplanes	Tons 1,855	754	37				
	..	6					
Rubber dispersions (k)	1,880	141	8				
	..	34					
Miscellaneous dipped goods, not elsewhere specified	..	51	7				
Miscellaneous rubber goods, including rubberised hair	406	278	129				
	..	4,354					
Waste rubber (including manufacturers' waste and old rubber)							
Soft	8,484	73	58	Tons		Tons	
	..	10			11,542	71	10,148	43
Hard	3,812	26	14				
	..	25					
Other waste products	1,255	6	34	..	(b)	..	(b)
	..	48					
Work done for the trade or on commission (q)							
Waterproofing		821	20		553		609
Tyres, retreaded or remade	Thous.			Thous.		Thous.	
Giant tyres (including 5" S.S.)	493	2,128	52				
Tractor and dumper and earth mover vehicle tyres	10	66	11	510	481 (r)	283	258 (k)
Car (including taxi) tyres	817	1,167	54				(r)
Other tyres	22	34	20				

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.		£'000		£'000
Work done for the trade or on commission (contd.)							
Repairs to rubber, etc. goods		207	33		44		91
Compounding of rubber		841	24				
Other work done for the trade or on commission (q)					71		52
		1,712	54				
Total		126,913	..		33,022		27,249
Less sales (or production) in other trades (see Table 9)		5,340	..		1,339		1,205
Total principal products of this trade sold or made by establishments in the trade		121,573	299		31,683		26,044

(a) Recorded as:-

	1937		1935	
	Tons	£'000	Tons	£'000
Fine calendered	498	69	547	64
Other	3,317	283	2,218	170

(b) Not recorded separately.

(c) Described as "Wholly of rubber".

(d) Recorded as:-

Hose	1937			1935		
	Tons	Th.yds.	£'000	Tons	Th.yds.	£'000
Reinforced throughout with metal wire or strip	1,092	1,208	149	2,272	2,214	294
	..	..	64			
Other descriptions not wholly of rubber	5,333	8,267	555	3,400	6,033	387
	373	..	52	352	..	47

(e) Including tubing for medical and surgical purposes.

(f) Recorded as:-

Machinery belting	Tons	£'000
	Rubber and canvas	
Under 12 inches wide	5,149	929
12 inches wide and over	4,383	618
Unclassified	436	122

(g) Described as "Mats, matting and tiling of rubber".

(h) Described as "Rubber gloves".

(i) Described as "Football bladders".

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

(k) So far as recorded separately.

(l) Described as "Fabric".

(m) For finished hair combs of hard rubber see the Plastic Goods and Fancy Articles Trade (Volume 11, Trade I).

(n) Described as "Rubber compounds and solutions".

(o) Described as "Sponge rubber goods, not elsewhere specified".

(p) Described as "Tobacco pouches".

(q) Amount charged in 1948 and amount received in 1937 and 1935.

(r) In 1937 and 1935 the output of retreaded or remade tyres was recorded as the net selling value including the value of the casings, and was not included with work done for the trade or on commission.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.	Tons	£'000	Quantity	£'000
Sheets and sheeting wholly of rubber	125	60	6	37	3	-	-
	..	124					
Cloth proofed with rubber	Th. sq. yds.			Th. sq. yds.		Th. sq. yds.	
Hospital sheeting (including jaconet and batiste)	68	12	6	1,314	83	3,456	186
Other, including cable cloth and cloth proofed with synthetic rubber	742	104						13
	..	30					
Threads, wholly of rubber	-	-	-	Tons	207	71	152
							53
Hose, wholly of rubber, balata or gutta percha	-	-	-	5	1	3	1
				Th. ft.		66	
				Thous.			
Solid tyres for perambulators and other baby carriages	-	-	-	208	5	-	-
	Tons			Tons		Tons	
Rubber accessories for motor vehicles and cycles, and rubber valves, washers and rings for industrial purposes (sold separately), not elsewhere specified	..	42	6	5	1	3	1
						..	1
Machinery belting							
Balata (including gutta percha) and canvas; and conveyor and elevator belting and motor vehicle fan belts of rubber or rubber and canvas	713	548	..	463	123	405	105
Other, of rubber or rubber and canvas	-	-	-	312	62	91	14
	Th. doz. prs.			Th. doz. prs.		Th. doz. prs.	
Rubber boots							
Of a length (front of sole to heel tip) exceeding 11 inches, including industrial types	42	328	..				
Wellingtons							
Of a length exceeding 9½ inches but not exceeding 11 inches	15	82	..	29	60	35	68
Of a length not exceeding 9½ inches	50	175	..				
Other descriptions	24	118	..				

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TABLE 9 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. doz. prs.	£'000	No.	Th. doz. prs.	£'000	Th. doz. prs.	£'000
Rubber shoes							
Bathing shoes, sandals and the like, wholly of rubber	-	-	-	54	47	46	64
Goloshes and over-shoes of all descriptions, wholly of rubber	-	-	..	24	50		
Canvas shoes with rubber soles, without heels							
Black or brown plimsolls (whether plain or speckled)	88	190	..	62	40	108	108
Other	13	51	5				
Canvas shoes with rubber soles and heels	28	176	7	170	153	144	128
Other, including shoes wholly of rubber and of rubber and other materials	271	1,073	24				
	Tons					Tons	
Rubber soles, full and half size, (including combined soles and heels) and rubber heels and heel tips	67	25	8			7	1
	..	116					
	Th. doz. prs.						
Rubber gloves and gauntlets, household	1	1	..	-	-	-	-
Vulcanite, ebonite and other hard rubber							
Sheets, rods and tubes	-	-	-	..	49	-	-
	Tons			Tons			
Other, except finished hair combs	..	362	7	2	1	17	3
Insulating materials of cloth and tape and self-adhesive tape for industrial purposes	852	725	14	988	227	791	160
	..	234				..	45
Rubber dispersions	..	34	..	-	-	-	-

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TABLE 9 (contd.)

	1948 Sales		1937 Production		1935 Production		
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£'000	No.	Th. doz.	£'000		£'000
Tobacco pouches and pouch linings	-	-	-	25	5		
Miscellaneous rubber goods including reclaimed rubber; hose (other than fabric wrapped); tubing wholly of rubber (other than for medical and surgical purposes); mats and matting; bathing caps and helmets; rubber balls; toys wholly or mainly of rubber; hot water bottles, hand made fabric and moulded type; air cushions (other than surgical), mattresses and other air-proofed goods; medical, surgical and dental products other than sheeting and gloves, not elsewhere specified; rubber adhesives; rubber compounds, sold as such; sponge and cellular rubber products, not elsewhere specified; rubber bands and erasers; printers' rollers and blankets; and wringer rollers	..	717	22	.. Tons	300	..	250
Waste rubber (including manufacturers' waste and old rubber)	-	-	-	41	2	-	-
Work done for the trade or on commission (including water proofing)		10(a)	5		11(b)		12(b)
Total		5,340			1,339		1,205

(a) Amount charged.
(b) Amount received.

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948 Sales		1937 Production		1935 Production	
	Quantity	Value	Quantity	Value	Quantity	Value
	Thous.	£'000	Thous.	£'000	Thous.	£'000
Proofed, etc., garments (a)						
Rubber proofed	175	253	619	318	711	365
Other descriptions	38	43	336	324	215	251
Proofed piece goods, other than rubber proofed	Th. sq. yds. 1,756	204	Th. doz.	-	Th. doz.	-
Golf balls and tennis balls, covered ready for use	635	522	1,003	443	1,202	497
Anti-gas respirators and parts	-	-	.. Th. cwts.	878	.. Th. cwts.	8
Plastic materials and manufactures thereof	..	988	12	125	8	98
Insulating materials other than cloth and tape	..	488	..	85	..	5
Parts and accessories (not wholly of rubber) of motor vehicles (other than motor cycles) and pedal cycles	..	361	-	-	-	-
Varnishes, dyes, stains, inks, polishes and artists' colours	..	303	-	-	-	-
Boots, shoes and sandals, not wholly of rubber, and parts thereof	..	106	-	-	-	-
Machinery parts and accessories	..	562	-	-	-	-
Other goods, including leather cloth	..	1,321	..	348	..	267
Work done		22(b)		1(c)		4(c)
Total		5,173		2,522		1,495

(a) Described in 1937 and 1935 as "Mackintoshes, oilskins and other proofed garments".

(b) Amount charged.

(c) Amount received.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	1,576	1.3
Export sales organisations (including branches abroad)	5,325	4.5
Other wholesale or selling organisations	35,473	29.6
Retail shops, etc.	302	0.3
Total sales (or transfers) to other organisations under the same control	42,676	35.6
Sales to independent buyers		
Exports invoiced directly overseas	8,257	6.9
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	1,622	1.4
His Majesty's Government and Local Authorities (other than productive establishments)	1,942	1.6
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	29,182	24.4
Wholesalers, merchants and other agents for resale	31,156 (a)	26.0
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	4,265	3.6
Other businesses (including farmers) and institutions of all kinds	626	0.5
Members of the public, including employees	33	0.0
Total sales to independent buyers	77,083	64.4
Total	119,759	100.0

(a) Of this total £27,609,000 was recorded as divided between £2,391,000 for export and £25,219,000 for other sales.

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

TABLE 12

	Production (b) (c)	Exports (d)	Retained imports (e)
	Tons	Tons	Tons
Sheets and sheeting wholly of rubber			
Mechanical	1948	2,219(f)	35
Other	1948	1,427(f)	667
			292(g)
Total sheets and sheeting wholly of rubber	{ 1948 1937	3,646 3,815	702 679
		£'000	£'000
Rubber sheeting with a textile backing and insertion sheeting	1948	422	156
			4
Cloth proofed with rubber, including sheets, sheeting and cloth proofed with synthetic rubber, and cable cloth	1948	3,064	1,370
			4
Total rubber sheeting with a textile backing, insertion sheeting and cloth proofed with rubber	{ 1948 1937	3,486 1,056	1,473 402
		Tons	Tons
Rubber composition sheets for soling purposes	1948	3,925(h)	258
			..
Threads, wholly of rubber	{ 1948 1937	2,600(h) 1,495(h)	781 489
			12 57
Reclaimed rubber	{ 1948 1937	21,640(h) 12,616(h)	1,969 3,973
			5 3,062
Hose and tubing			
Hose, wholly of rubber, balata or gutta percha	1948	1,481	925
			40
Tubing, wholly of rubber (other than for medical and surgical purposes)	1948	1,503(f)	168
			40
Total hose and tubing wholly of rubber, balata or gutta percha	{ 1948 1937	2,984(f) 3,000(f)	1,093 911
		£'000	£'000
Fabric wrapped hose			
Reinforced throughout with metal wire or strip, not wire braided			
Suction type	1948	773	151
Other	1948	274	51

TABLE 12 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	£'000	£'000	£'000
Hose and tubing (contd.)			
Fabric wrapped hose (contd.)			
Other fabric wrapped hose, including wire braided, with or without end fittings	1948 1,787	442	4
Other descriptions of hose			
Wire braided	1948 140	20	
Other	1948 908	120	
Total hose not wholly of rubber	{ 1948 3,882 1937 250	784 144	4 28
Rubber tyres and tubes (1)	Thous.	Thous.	Thous.
Pneumatic			
Outer covers			
Aeroplane tyres	1948 51	16	-
Motor cycle and tri-car tyres	{ 1948 727 1937 441	130 49	- 12
Other motor vehicle tyres			
New			
Giant tyres (including 5" S.S.)	1948 2,746	537	
Tractor and dumper and earth mover vehicle tyres	1948 686	18	
Car (including taxi) tyres	1948 5,978	900	39
Retreaded or remade			
Giant tyres (including 5" S.S.)	1948 493	9	
Tractor and dumper and earth mover vehicle tyres	1948 10	-	
Car (including taxi) tyres	1948 817	10	
Total other motor vehicle tyres	{ 1948 10,730 1937 7,178 (j)	1,474 1,377	39 114
Pedal cycle tyres	{ 1948 14,124 1937 10,762	3,565 3,316	11 305
Animal drawn and similar vehicle tyres	1948 148	9	
Barrow and trolley tyres	1948 341	66	

TABLE 12 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	Thous.	Thous.	Thous.
Rubber tyres and tubes (k) (contd.)			
Pneumatic (contd.)			
Inner tubes			
For aeroplane tyres	1948 40	11	-
For motor cycle and tri-car tyres	{ 1948 663 1937 372	130 41	5 8
For other motor vehicle tyres			
For giant tyres (including 5" S.S.)	1948 2,078	459	
For tractor and dumper and earth mover vehicle tyres	1948 637	15	62
For car (including taxi) tyres	1948 4,842	773	
Total inner tubes for other motor vehicle tyres	{ 1948 7,557 (j) 1937 5,032	1,247 1,069	62 46
For pedal cycle tyres	{ 1948 14,357 1937 9,838	3,419 2,325	136 308
For animal drawn and similar vehicle tyres	1948 129	10	-
For barrow and trolley tyres	1948 381	66	
Solid, cushion and sponge rubber tyres	{ 1948 9,493 (k) 1937 8,024	806 20	- -
Machinery belting	Tons	Tons	Tons
Motor vehicle fan belts of rubber, or rubber and canvas	1948 913	80	-
Other belting of balata (including gutta percha) and canvas or of rubber, or rubber and canvas	{ 1948 29,777 (f) 1937 11,522	2,129 2,402	4,609 471
Total other motor vehicle tyres	£'000	£'000	£'000
Mats, matting, flooring and tiling of rubber, other than of sponge rubber			
Mats and matting	1948 689	64	3
Flooring and tiling, including sponge backed	1948 1,529	224	
Total mats, matting, flooring and tiling of rubber (l)	{ 1948 2,218 1937 565	288 52	3 10
Coverings and stair nosings	1948 541	50	..

TABLE 12 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	Th. doz. prs.	Th. doz. prs.	Th. doz. prs.
Rubber boots			
Of a length (front of sole to heel tip) exceeding 11 inches, including industrial	1948 195	26	19
Wellingtons			
Of a length exceeding 9½ inches but not exceeding 11 inches	1948 217	19	31
Of a length not exceeding 9½ inches	1948 317	23	42
Other descriptions	1948 57	10	15
Total rubber boots	{ 1948 786 1937 273	78 16	107 304
Rubber Shoes			
Wholly of rubber	1948 41	4	5
Of rubber and other materials			
Canvas shoes with rubber soles, other than black or brown plimsolls	1948 236	109	219
Black or brown plimsolls (whether plain or speckled)	1948 509		
Other shoes of rubber and of rubber and other materials	1948 924	7	3
Total rubber shoes	{ 1948 1,710 1937 1,788	120 51	228 604
Rubber soles, full and half size, including combined soles and heels	1948 Tons 4,346 (f)	Tons 200	Tons 5
Rubber heels and heel tips	1948 4,634	206	3
Total rubber soles, heels and heel tips (m)	{ 1948 8,980 (f) 1937 8,122	406 452	8 823
Rubber gloves and gauntlets	Th. doz. prs.	Th. doz. prs.	Th. doz. prs.
Household	1948 154	25	5
Industrial	1948 29	11	
Surgical and Medical	1948 112	30	
Total rubber gloves and gauntlets	{ 1948 295 1937 130	66 13	5 101
Bathing caps and helmets	{ 1948 Th. doz. 95 1937 54	Th. doz. 38 4	Th. doz. 1 97

TABLE 12 (contd.)

	Production (b) (c)	Exports (d)	Retained imports (e)
	£'000	£'000	£'000
Rubber balls			
Bladders (football, punchball, water polo, etc.)	1948 206	44 (n)	7
Other descriptions for sports and games, except complete golf balls and tennis balls	1948 130	9	
Total rubber balls for sports and games, except complete golf and tennis balls	{ 1948 336 1937 147	52 19	7 3
Playballs (including sponge rubber playballs)	{ 1948 411 1937 87	33 8	13 22
Toys, wholly or mainly of rubber, except balls			
Balloons	1948 346	43	12
Other	1948 241	39	
Hot water bottles	Th. doz.	Th. doz.	Th. doz.
Hand made fabric type	1948 40	5	3
Moulded and latex dipped type	1948 581	82	
Total hot water bottles	{ 1948 621 1937 292	87 27	3 21
Medical, surgical and dental products other than sheeting and gloves	Thous.	Thous.	
Enemas	1948 523	212	..
Surgical cushions and bedpans	1948 98 (o)	25	
Bulbs of all kinds	1948 1,898	105	
Teats and valves	1948 51,035	7,672	
Pacifiers	1948 £'000 156	£'000 49	
Other, including prophylactics	1948 1,081	125	
Rubber bands	1948 99	21		£'000 4
Erasers	1948 162	71	4 34
Total rubber bands and erasers	{ 1948 261 1937 80	91 9	

TABLE 12 (contd.)

		Production (b)(c)		Exports (d)		Retained imports (e)	
		£'000	Th. gross	£'000	Th. gross	£'000	Th. gross
Camel back and other tyre repair materials	1948	1,206		146		-	
Sealing and bottling rings	1948	4,532		280		..	
Sponge and cellular rubber products of all descriptions, not elsewhere specified	1949	Tons 5,424(f)		Tons 907		(p)	
Vulcanite, ebonite and other hard rubber		£'000		£'000			
Sheets	1948	108		34		1	
Rods	1948	122		37			
Tubes	1948	73		16			
Other manufactures (except finished hair combs), not elsewhere specified	1948	2,037		81			
Total vulcanite, ebonite and other hard rubber	{ 1948 1937	2,340 727		168 16(q)		1(q) 8(q)	
Rubber compound and adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber)	1948	Tons 19,459 (f)		Tons 1,156		..	

- (a) Figures of sales (or production) refer only to larger establishments in the relevant years. 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 1948 and production for sale in 1937.
- (c) Including sales (or production) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) Partly estimated.
- (g) Including synthetic rubber sheeting.
- (h) Production for sale or for further manufacturing in the same works.
- (i) 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.
- (j) Including aeroplane and horse-drawn vehicle tyres or tubes.
- (k) Excluding cushion and sponge rubber tyres.
- (l) Described as "Mats, matting and tiling of rubber" in 1937.
- (m) Described as "Rubber heels and soles" in 1937.
- (n) Described as "Football bladders".
- (o) Excluding cushions of sponge rubber.
- (p) Re-exports in excess of imports.
- (q) Described as "in rods, tubes, sheets, etc., not elsewhere specified".

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Natural rubber, raw						
Rubber latex	9.6(a)	1,422	99.6	8,464(b)	85.1	4,750(b)
Sole crepe	9.5	802				
Other	158.9	17,898				
Balata	0.7	405				
Gutta percha, raw	0.1	73				
Rubber compound (c)	9.4	1,209	..	(d)	..	(d)
	..	169				
Reclaimed rubber	16.5	880	9.3	261	7.0	165
Blacks						
Gas carbon blacks	34.4	2,436	16.8	517	13.9	440
Other	15.0	762	..	(d)	..	(d)
	Th. lbs.		Th. lbs.		Th. lbs.	
Cotton yarn	17,357	4,056	30,969	2,010	28,258	1,736
Cotton fabrics	Th. sq. yds.		Th. sq. yds.		Th. sq. yds.	
Tyre fabrics	33,925	6,885	63,991	2,370	48,491	1,661
Other	91,246	12,173				
Packing materials	..	1,305	..	374	..	(d)
Synthetic rubber	Th. tons					
G. R. S.	0.3	34				
G. R. M.	0.6	149				
Other	0.6	143				
Waste rubber						
Soft	37.8	250				
Hard	2.9	49				
Rubber substitute (factice)	0.9	168				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th. cwts.	£'000		£'000		£'000
Anti-oxidants	30.3	477				
Dyestuffs	5.4	145				
Fillers and pigments						
Barytes	91.9	53				
China clay	250.1	143				
French chalk	68.2	51				
Lead oxide, red	3.0	9				
Lithopone	49.9	89				
Magnesium carbonate	27.6	82				
Silene	1.4	6				
Titanium oxide	9.7	42				
Whiting	489.7	166				
Zinc oxide	314.1	1,153				
Other	228.5	565				
Rubber accelerators	35.7	549	-	4,333	-	3,941(e)
Sodium hydroxide (caustic soda)	63.9	29				
Softeners, plasticisers and tackifiers	339.7	949				
Solvents	Th. galls.					
Benzole	773	87				
	Th. cwts.					
Carbon disulphide	3.1	8				
Carbon tetrachloride	5.0	14				
	Th. galls.					
Solvent naphtha	1,918	212				
Other	3,138	397				
	Th. cwts.					
Sulphur	138.5	117				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th. sq. yds.	£'000		£'000		£'000
Rayon, nylon, etc., fabrics	31,104	5,545				
	Th. cwts.					
Camelback (c)	26.6	138				
	..	85				
Bead wire	..	689				
Tube valves	..	587				
All other purchased materials	..	10,178				
Unclassified materials	-	-	..	244	-	-
	Th. tons		Th. tons		Th. tons	
Fuel and electricity						
Coal	511.7	1,412	418.4	421	397.9	334
Coke	24.3	87	..	(d)	6.0	9
Electricity purchased (f)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	498,897	1,705				
From other sources	9,464	43				
Electricity obtained from other works under the same ownership	-	-	273,744	533	220,321	449
Motor spirit (petrol) and deriv. fuel	Th. galls.				Th. galls.	
Used for road vehicles	738	75				
Used for other power purposes	439	17	..	(d)	..	(d)
Other oil fuel (including creosote/pitch mixtures)	5,791	209	..	(d)	708	11(g)
Gas purchased	Th. therms					
From public supply	1,591	66				
From other sources	..	9	..	88	..	(d)
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	-	61				
Total		77,516		19,615		13,496

- (a) Dry rubber content.
(b) Described as "Crude rubber".
(c) So far as recorded separately.
(d) Not recorded separately.
(e) Including fuel not specified separately.
(f) The total quantity of electricity consumed in 1948 was 524,831,000 B. T. units, including 16,471,000 generated in the same works.
(g) Described as "Heavy fuel oil".

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
	Thous.	£'000	Thous.	£'000
Finished products				
Rubber tyres and tubes				
Pneumatic				
Outer covers, new				
For motor vehicles (except motor cycles and tri-cars) and for aeroplanes	186	685	286	1,282
For pedal cycles	283	42	491	72
Inner tubes				
For motor vehicles, except motor cycles and tri-cars	220	74	408	138
Machinery belting	Tons 545 ..	184 21	Tons 842 ..	327 34
Rubber boots	Th. doz. prs. 9	33	Th. doz. prs. 6	23
Canvas shoes with rubber soles	41	50	22	40
Rubber soles, heels and tips	Tons 476 ..	81 10	Tons 741 ..	117 14
Other finished products	-	1,382	-	1,871
Work in progress		2,766		3,304
Total finished products and work in progress		5,326		7,220
Materials and fuel	Th. tons		Th. tons	
Natural rubber, raw, including latex	30.3	3,175	33.7	3,607
Synthetic rubber	0.7	134	0.5	90
Reclaimed rubber	5.1	217	3.6	177
Cotton yarn	Th. lbs. 1,360	238	Th. lbs. 1,604	381
Cotton fabrics	Th. sq. yds. 18,535	2,207	Th. sq. yds. 23,634	3,663
Other descriptions of materials and fuel	-	4,945	-	6,181
Total materials and fuel		10,916		14,100

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	1,588	2,954	2,628	421	666	490	2,009	3,620	3,118
All ages	49,772	29,957	28,021	9,937	6,868	6,578	59,709	36,825	34,599
Females									
Under 18	1,656	5,635	3,983	789	670	403	2,445	6,305	4,386
All ages	22,246	18,005	16,535	5,163	3,259	2,964	27,409	21,264	19,499
Total									
Under 18	3,244	8,589	6,611	1,210	1,336	893	4,454	9,925	7,504
All ages	72,018	47,962	44,556	15,100 (c)	10,127	9,542	87,118 (c) (d) (e)	58,089	54,098
Total remuneration	£'000 21,539	..	..	£'000 6,320	..	..	£'000 27,860	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers	39 males	849 females
Other workers	739 males	338 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) There were, in addition, 27 working proprietors (24 males and 3 females) in 1948. Working proprietors are included in the 1937 and 1935 figures.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £676,000.

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	171	
Maintenance and repair of firms' buildings, but not plant	598	
Research work not directly connected with current production however charged	4	261

In addition to the employees in the above table the firms in this trade employed 44 male and 518 female outworkers in 1948, the amount paid to them being £67,000. Similar information is not available for 1937 and 1935.

OTHER MANUFACTURING INDUSTRIES
Wages and salaries paid, 1948 (a)
Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	21,539	15,907	24.0	24.8	24.2	27.0	100.0
Administrative, technical and clerical employees	6,320	4,388	24.4	24.4	24.8	26.4	100.0
Total	27,860	20,295	24.1	24.7	24.3	26.9	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid for work done on materials given out was £444,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	381
Of plant, machinery and vehicles	586
Unclassified	643
Hire of plant, machinery and vehicles	86
Advertising and market research	
Advertising in newspapers, magazines and periodicals	144
Other advertising services (poster display, despatch of circulars, etc.) and market research	68
Unclassified	334
Payments made for research work	
To research associations	17
To universities, institutions, academic bodies and similar agencies	1
To other commercial concerns	135
Postage, telephone, telegrams and cables	218
Commercial insurance premiums	425
Rates (excluding water rates) payable in the year	116

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	3,791	196	70
Vehicles	192	61	35
Total	3,983	257	106

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		930
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	196	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	148	
(111) Leasehold buildings and land newly occupied in the year	28	
Total of heading 2		372
Total of headings 1 and 2		1,302
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	7	
(11) Estimated value of other properties relinquished	211	
Total of heading 3		218
4. Headings 1 and 2 less heading 3		1,084

- (a) Excluding site value which, where appropriate, is included in heading 2(1).
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
 (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
 (d) Including property destroyed or abandoned.

RUBBER TRADE

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
Gross output (production)	£'000 115,365	£'000 506	£'000 12,152	£'000 128,023
Cost of materials and fuel used	66,541	308	7,484	74,332
Payment for work done on materials given out	406	21	17	444
Net output	48,418	177	4,652	53,247
Wages and salaries of persons employed	24,769	165	2,925	27,860
Average number of persons employed (a)	No. 76,525	No. 620	No. 10,000	No. 87,145
Net output per person employed (a)	£ 633	£ 285	£ 465	£ 611
Stocks at end of year	£'000	£'000	£'000	£'000
Finished products and work in progress	6,573	39	609	7,220
Materials and fuel	No. 12,224	No. 68	No. 1,808	No. 14,100
Number of establishments	296	7	23	326

(a) Excluding outworkers.

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

	England	Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000	£'000
Total value of sales (see Table 23)	114,231	511	12,004	126,746
Adjustment for changes in stocks and work in progress	+ 1,712	+ 6	+ 176	+ 1,894
	115,944	517	12,180	128,640
Less payment for transport by other firms	579	11	27	618
Gross output (production)	115,365	506	12,152	128,023
Materials and fuel used by firms in this trade				
Purchases (see Table 24)	69,177	309	8,030	77,516
Adjustment for changes in stocks	- 2,636	- 1	- 546	- 3,183
Materials and fuel used	66,541	308	7,484	74,332

Summary
Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	183	9	8	205
Average number of persons employed (a)				
Males	785	27	37	849
Females	225	8	5	238
Total	1,010	35	42	1,087

(a) Including working proprietors.

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Sales in the trade

Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Tons	£'000	Tons	£'000	Tons	£'000
Sheets and sheeting wholly of rubber	2,667 ..	547 2	266	46	2,932 ..	593 2
Insertion sheeting	1,269	204	466	71	1,735	275
Rubber sheeting with a textile backing	1,083	142	21	5	1,104	147
Cloth proofed with rubber	Th. sq. yds.		Th. sq. yds.		Th. sq. yds.	
Hospital sheeting (including jaconet and batiste)	1,368	204	346	55	1,713	259
Other, including cable cloth and cloth proofed with synthetic rubber	23,440 Tons	2,467	1,449 Tons	192	24,888 Tons	2,659
Rubber composition sheets for soling purposes	..	(a)	..	(a)	3,782	616
Threads, wholly of rubber						
For weaving, braiding and other textile purposes	1,531	792	-	-	1,531	792
Other thread, strip or tape	..	(a)	..	(a)	739	212
Hose						
Wholly of rubber, balata or gutta percha	..	(a)	..	(a)	1,481 Th. ft. 11,492	146
Fabric wrapped						
Reinforced throughout with metal wire or strip, not wire braided						
Suction type	1,738 Th. ft. 3,802 Tons	677	234 Th. ft. 548 Tons	96	1,972 Th. ft. 4,349 Tons	773
Other	609 Th. ft. 2,372 103	210	124 Th. ft. 345 314	35	733 Th. ft. 2,717 417	245 29

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TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000
Principal products (contd.)						
Hose (contd.)						
Fabric wrapped (contd.)						
Other fabric wrapped hose including wire braided, with or without end fittings	3,332 Th. ft. 21,492 319	1,484 22	179 Th. ft. 892 4,563	62 218	3,510 Th. ft. 22,384 4,882	1,547 240
Rubber tyres and tubes						
Pneumatic						
Outer covers, new	Thous.		Thous.		Thous.	
Giant tyres (including 5" S.S.)	2,387	23,903	359	2,963	2,746	26,866
Tractor and dumper and earth mover vehicle tyres	645	4,158	41	126	686	4,285
Car (including taxi tyres)	5,401	12,209	577	1,388	5,978	13,597
Aeroplane tyres	51	413	-	-	51	413
Animal-drawn and similar vehicle tyres	116	402	32	100	148	502
Motor cycle and tri-car tyres	719	839	8	9	727	847
Pedal cycle tyres	13,164	2,467	961	143	14,124	2,610
Barrow and trolley tyres	281	197	60	38	341	236
Inner tubes						
For giant tyres (including 5" S.S.)	1,790	1,521	288	213	2,078	1,734
For tractor and dumper and earth mover vehicle tyres	598	451	39	35	637	486
For car (including taxi) tyres	4,428	1,426	414	144	4,842	1,570
For aeroplane tyres	40	41	-	-	40	41
For animal-drawn and similar vehicle tyres	102	39	27	10	129	49
For motor cycle and tri-car tyres	663	131	-	-	663	131

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Thous.	£'000	Thous.	£'000	Thous.	£'000
Principal products (contd.)						
Rubber tyres and tubes (contd.)						
Pneumatic (contd.)						
Inner tubes (contd.)						
For pedal cycle tyres	13,622	1,080	735	49	14,357	1,129
For barrow and trolley tyres	322	55	59	10	381	66
Solid tyres						
For commercial vehicles	39	147	-	-	39	147
For industrial trucks	362	155	-	-	362	155
For perambulators and other baby carriages	5,893	338	-	-	5,893	338
Other (including rotary plants)	3,189	126	10	2	3,199	128
Solid tyreing sold in the length and cushion and sponge rubber tyres	..	(a)	..	(a)	..	139
Rubber accessories for motor vehicles and cycles, and rubber valves, washers and rings for industrial purposes sold separately, not elsewhere specified	..	3,282	..	83	..	3,365
Machinery belting						
Balata (including gutta percha) and canvas; and conveyor and elevator belting and motor vehicle fan belts of rubber or rubber and canvas	..	10,165	..	990	..	11,156
Power transmission	Tons 1,902 Th. yds. 3,650	1,110	-	-	Tons 1,902 Th. yds. 3,650	1,110
V-belts and round section belts	Tons 805 Thous. 1,847 Tons 201 Thous. 1,106	705 213 398	-	-	Tons 805 Thous. 1,847 Tons 201 Thous. 1,106	705 213 398

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000
Principal products (contd.)						
Machinery belting (contd.)						
Other rubber or rubber and canvas machinery belting						
Under 12 inches wide	..	(a)	..	(a)	29	27
12 inches wide and over	..	(a)	..	(a)	14	12
					..	2
Flooring and tiling of rubber, other than of sponge rubber						
Flooring and tiling, including sponge backed	8,783 Th. sq. yds. 1,619	1,348	1,436 Th. sq. yds. 226	181	10,218 Th. sq. yds. 1,845 Tons 541 Th. yds. 512	1,529
Covings and stair nosings	..	(a)	..	(a)	..	98
Rubber boots					Th. doz. prs.	
Of a length (front of sole to heel tip) exceeding 11 inches, including industrial types	..	(a)	..	(a)	153	1,173
Wellingtons						
Of a length exceeding 9½ inches but not exceeding 11 inches	..	(a)	..	(a)	202	953
Of a length not exceeding 9½ inches	..	(a)	..	(a)	268	729
Other descriptions	..	(a)	..	(a)	33	141
Rubber shoes						
Bathing shoes, sandals and the like, wholly of rubber	..	(a)	..	(a)	24	33
Goloshes and overshoes of all descriptions, wholly of rubber	..	(a)	..	(a)	17	63
Canvas shoes with rubber soles, without heels						
Black or brown plimsolls (whether plain or speckled)	281	415	139	206	420	621
Other	..	(a)	..	(a)	425	1,103

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. doz. prs.	£'000	Th. doz. prs.	£'000	Th. doz. prs.	£'000
Principal products (contd.)						
Rubber shoes (contd.)						
Canvas shoes with rubber soles and heels	..	(a)	..	(a)	208	621
Other, including shoes wholly of rubber and of rubber and other materials	..	(a)	..	(a)	216	610
Rubber soles, full and half size, including combined soles and heels, and rubber heels and heel tips	..	(a)	..	(a)	Tons 8,514	2,407
Rubber gloves and gauntlets					Th. doz. prs.	
Household	153	103	-	-	153	103
Industrial	27	90	2	5	29	95
Surgical and medical	112	105	-	-	112	105
Medical, surgical and dental products other than sheeting and gloves	Thous.		Thous.		Thous.	
Bedpans	..	(a)	..	(a)	9	5
Surgical cushions, other than of sponge rubber	74	33	14	8	89	41
Bulbs of all kinds	1,898	89	-	-	1,898	89
Pacifiers	3,540 ..	57 99	-	-	3,540 ..	57 99
Vulcanite, ebonite and other hard rubber						
Sheets	181	108	-	-	181	108
Rods	197 ..	99 23	-	-	197 ..	99 23
Tubes	119	73	-	-	119	73
	Th. gross				Th. gross	
Screw stoppers for bottles	477	196	-	-	477	196
Other manufactures of vulcanite, ebonite and other hard rubber, except finished hair combs	..	(a)	..	(a)	..	1,479

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)		£'000		£'000	Tons	£'000
Insulating materials of cloth and tape and self-adhesive tape for industrial purposes	..	(a)	..	(a)	1,922	638
	Th. doz.				..	1,285
Tobacco pouches and pouch linings	9	8	-	-	9	8
					Tons	
Roller covering materials	..	(a)	..	(a)	255	98
Camelback and other tyre repair materials	..	(a)	..	(a)	..	1,206
Balloons, including meteorological, but excluding toy balloons	..	41	-	-	..	41
	Thous.		Thous.		Thous.	
Industrial rollers	91	123	8	10	100	133
	..	16			..	16
					Th. gross	
Sealing and bottling rings	..	(a)	..	(a)	4,532	368
Railway springs, buffer recoils, buffers and other rubber products for locomotives, carriages and wagons, motor vehicles and aeroplanes	..	(a)	..	(a)	Tons	754
	..		..		1,855	6
	Tons				..	
Rubber dispersions	1,880	141	-	-	1,880	141
Miscellaneous dipped goods, not elsewhere specified	..	51	-	-	..	51
Miscellaneous rubber goods, including reclaimed rubber; hose (other than fabric wrapped); tubing wholly of rubber (other than for medical and surgical purposes); mats and matting; bathing caps and helmets; rubber balls; toys wholly or mainly of rubber; hot water bottles, hand made fabric and moulded type; air cushions (other than surgical), mattresses and other air-proofed goods; medical, surgical and dental products other than sheeting and gloves, not elsewhere specified; rubber adhesives; rubber compounds, sold as such; sponge and cellular rubber products, not elsewhere specified; rubber bands and erasers; printers' rollers and blankets; wringer rollers; and rubberised hair	..	15,232	..	789	..	16,021

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Tons	£'000	Tons	£'000	Tons	£'000
Waste rubber (including manufacturers' waste and old rubber)						
Soft	7,026	64	1,458	9	8,484	73
	..	10			..	10
Hard	..	(a)	..	(a)	3,812	26
					..	25
Other waste products	1,214	6	41	1	1,255	6
	..	45	..	4	..	48
	Thous.		Thous.		Thous.	
Work done for the trade or (b) on commission						
Tyres retreaded or remade						
Giant tyres (including 5" S.S.)	469	2,035	24	93	493	2,128
Tractor and dumper and earth mover vehicle tyres	10	66	-	-	10	66
Car (including taxi) tyres	778	1,111	39	56	817	1,167
Other tyres	22	34	-	-	22	34
Repairs to rubber, etc. goods		199		8		207
Compounding of rubber		(a)		(a)		841
Other work done for the trade or on commission including waterproofing		2,444		78		2,523
Total principal products		110,662		10,911		121,573
Other output						
Proofed etc., garments						
Rubber proofed	37	40	137	213	175	253
Other descriptions	..	(a)	..	(a)	38	43

TABLE 23 (contd:)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. sq. yds.	£'000	Th. sq. yds.	£'000	Th. sq. yds.	£'000
Other Output (contd.)						
Proofed piece goods, other than rubber proofed	37	5	1,719	199	1,756	204
					Th. doz.	
Golf balls and tennis balls, covered, ready for use	..	(a)	..	(a)	635	522
Plastic materials and manufactures thereof	..	(a)	..	(a)	..	988
Insulating materials other than cloth and tape	..	481	..	7	..	488
Parts and accessories (not wholly of rubber) of motor vehicles (other than motor cycles) and pedal cycles	..	361	-	-	..	361
Varnishes, dyes, stains, inks, polishes and artists' colours	..	303	-	-	..	303
Boots, shoes and sandals, not wholly of rubber, and parts thereof	..	(a)	..	(a)	..	106
Machinery parts and accessories	..	562	-	-	..	562
Other goods, including leather cloth	..	1,036	..	285	..	1,321
Work done (b)		(a)		(a)		22
Total		114,742		12,004		126,746

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

(b) Amount charged.

Purchased materials and fuel

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Natural rubber, raw						
Rubber latex	9.5	1,396	0.1	25	9.6	1,422
Sole crepe	9.5	802	-	-	9.5	802
Other	142.4	16,069	16.6	1,829	158.9	17,898
Balata	..	(a)	..	(a)	0.7	405
Gutta percha, raw	..	(a)	..	(a)	0.1	73
Rubber compound	..	(a)	..	(a)	9.4	1,209
Reclaimed rubber	16.0	858	0.4	22	16.5	880
Blacks						
Gas carbon blacks	..	(a)	..	(a)	34.4	2,436
Other	..	(a)	..	(a)	15.0	762
Cotton yarn	Th. lbs. 17,297	4,044	Th. lbs. 60	12	Th. lbs. 17,357	4,056
Cotton fabrics	Th. sq. yds.		Th. sq. yds.		Th. sq. yds.	
Tyre fabrics	..	(a)	..	(a)	33,925	6,885
Other	78,260	10,663	12,986	1,510	91,246	12,173
Packing materials	..	1,164	..	141	..	1,305
Synthetic rubber	Th. tons				Th. tons	
G.R.S.	..	(a)	..	(a)	0.3	34
G.R.M.	0.6	144	-	5	0.6	149
Other	..	(a)	..	(a)	0.6	143
Waste rubber						
Soft	..	(a)	..	(a)	37.8	250
Hard	2.9	49	-	-	2.9	49
Rubber substitute (factice)	0.8	154	0.1	14	0.9	168
Anti-oxidants	Th. cwts. 28.2	439	Th. cwts. 2.2	38	Th. cwts. 30.3	477
Dyestuffs	5.1	139	0.2	6	5.4	145

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000	Th. cwts.	£'000	Th. cwts.	£'000
Materials (contd.)						
Fillers and pigments						
Barytes	83.6	49	8.4	4	91.9	53
China clay	238.0	135	12.1	8	250.1	143
French chalk	62.2	47	6.0	4	68.2	51
Lead oxide, red	2.6	8	0.4	1	3.0	9
Lithopone	41.2	71	8.6	17	49.9	89
Magnesium carbonate	20.9	64	6.7	18	27.6	82
Silene	1.4	6	-	-	1.4	6
Titanium oxide	9.1	39	0.6	3	9.7	42
Whiting	417.0	146	72.7	20	489.7	166
Zinc oxide	280.1	1,030	34.0	123	314.1	1,153
Other	219.9	518	8.7	47	228.5	565
Rubber accelerators	32.1	505	3.7	43	35.7	549
Sodium hydroxide (caustic soda)	..	(a)	..	(a)	63.9	29
Softeners, plasticisers and tackifiers	309.1	865	30.6	83	339.7	949
Solvents					Th. galls.	
Benzole	..	(a)	..	(a)	773	87
Carbon disulphide	..	(a)	..	(a)	Th. cwts.	8
Carbon tetrachloride	5.0	14	-	-	5.0	14
Solvent naphtha	Th. galls.		Th. galls.		Th. galls.	
	1,451	167	467	46	1,918	212
Other	3,050	387	88	10	3,138	397
Sulphur	Th. cwts.		Th. cwts.		Th. cwts.	
	126.1	107	12.4	11	138.5	117
Rayon, nylon, etc. fabrics	..	(a)	..	(a)	Th. sq. yds.	5,545
Camelback	..	(a)	..	(a)	31,104	
Bead wire	..	(a)	..	(a)	Th. cwts.	138
Tube valves	..	(a)	..	(a)	26.6	85
All other purchased materials	..	9,106	..	1,072	..	689
						587
						10,178

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Fuel and electricity						
Coal	446.7	1,236	65.1	176	511.7	1,412
Coke	24.1	86	0.2	1	24.3	87
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	443,195	1,534	55,702	171	498,897	1,705
From other sources	9,464	43	-	-	9,464	43
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and deriv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	700	71	38	4	738	75
Used for other power purposes	439	17	-	-	439	17
Other oil fuel (including creosote/pitch mixtures)	..	(a)	..	(a)	5,791	209
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	1,535	63	56	2	1,591	66
From other sources	..	9	-	-	..	9
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	-	61	-	-	-	61
Total		69,486		8,030		77,516

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

(b) The total quantity of electricity consumed in England and Wales was 469,130,000 B. T. units including 16,471,000 generated in the same works. No electricity generated in the same works was recorded for Scotland.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin-istrative, technical and clerical employees (a)	Total
Males									
Under 18	1,380	383	1,763	208	38	246	1,588	421	2,009
All ages	43,921	9,069	52,990	5,851	868	6,719	49,772	9,937	59,709
Females									
Under 18	1,320	712	2,032	336	77	413	1,656	789	2,445
All ages	19,405	4,723	24,128	2,841	440	3,281	22,246	5,163	27,409
Total									
Under 18	2,700	1,095	3,795	544	115	659	3,244	1,210	4,454
All ages	63,326	13,792(b)	77,118 (b) (c)	8,692	1,308 (b)	10,000 (b) (c)	72,018	15,100 (b)	87,118 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	19,102	5,832	24,934	2,437	488	2,925	21,539	6,320	27,860

(a) Number at September 25, 1948.

(b) There were, in addition, 27 working proprietors (24 males and 3 females) in England and Wales. No working proprietors were recorded for Scotland.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £676,000; £598,000 for England and Wales, and £78,000 for Scotland.

In addition to the employees in the above table the firms in this trade employed outworkers whose numbers and remuneration are set out below.

	Average number of outworkers employed			Total amount paid to outworkers £'000
	Males	Females	Total	
England and Wales	44	518	562	67
Scotland	-	-	-	-
Great Britain	44	518	562	67

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)			Month	Monthly index (a)		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	99.6	99.5	99.6	August	98.5	100.3	98.8
February	100.5	100.4	100.5	September	99.0	100.1	99.2
March	101.1	100.2	101.0	October	100.3	99.0	100.1
April	100.8	101.3	100.9	November	102.7	99.7	102.2
May	99.8	100.8	100.0	December	100.1	98.9	99.9
June	99.3	100.1	99.4	Percentage employ-ment in this trade covered by the index			
July	98.2	99.6	98.4		72.6	88.7	74.5

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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