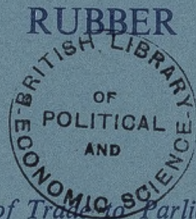


BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*

Volume 11: Industry A



*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)*

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# The Report on the Census of Production for 1954

VOLUME 11, INDUSTRY A

RUBBER

THIS REPORT on the Rubber Industry 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. Establishments engaged wholly or mainly in the manufacture of synthetic rubber for sale as such are excluded and covered in the report on the Chemicals (General) Industry (Volume 2, Industry E). Establishments engaged wholly or mainly in the manufacture of rubber or synthetic rubber clothing, are also excluded and covered in the report on the Tailoring, Dressmaking, etc., Industry (Volume 7, Industry H).

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

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

**Industrial Classification:** Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

**Specialist producers** normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

**Intermediate products:** For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

**Larger establishments:** The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

**Small firms** are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

**Gross output (production)** is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

**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. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Materials and fuel:** The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchandising are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

**Stocks:** Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

**Customs and Excise Duty** paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

**Employment:** Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

**Working proprietors** are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

**Administrative, technical and clerical employees** include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

**Operatives** include all other classes of employees, i.e., broadly speaking, all manual workers.

**Outworkers** are persons employed by the firm who work on materials supplied by the firm in their own homes.

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

**Capital expenditure** includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

**Symbols used:**

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary  
Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
Gross output (production)	£ million	£ million	£ million	£ million	£ million
Net output	130.3	262.4	221.2	16.46	6.57
Total stocks and work in progress	54.2	77.2	89.9	6.43	2.27
At beginning of year	16.5	33.7	31.4	3.32	0.89
Change during year	+ 5.2	+ 20.9	+ 6.0	+ 0.38	+ 0.14
Capital expenditure less disposals (a)	5.2	6.7	7.5	0.41	0.22
Wages and salaries	28.4	38.4	49.1	4.00	1.55
Total employment (including working proprietors)	Thousands	Thousands	Thousands	Thousands	Thousands
	88.7	100.8	107.0	9.40	3.92

(a) Capital expenditure on new building work, and on plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	326	328	337
Total value of sales and work done	£'000	126,746	251,797	216,632
Products on hand for sale	"	5,326	10,904	15,057
and work in progress	"	+ 1,894	+ 7,393	+ 706
Gross output (production) (a)	"	128,023	259,191	217,338
Purchases of materials and fuel	"	77,516	192,989	130,794
Stocks of materials and fuel	"	10,916	22,413	15,796
at beginning of year	"	+ 3,183	+ 13,258	+ 5,206
change during year	"	74,332	179,731	125,588
Cost of materials and fuel used	"	444	1,217	657
Payment for work done on materials given out	"	618	1,958	2,776
Payment for transport (b)	"			
Net output	"	53,247	76,284	88,318
Average number of employees	No.	72,018	81,088	84,740
operatives	"	15,100(c)	18,475	20,321
others	"	87,145	99,583	105,079
Total employment (d)	"	611	766	841
Net output per person employed (d)	£			
Wages and salaries	£'000	21,539	28,532	36,115
of operatives	"	6,320	9,418	12,134
of others	"			
Capital expenditure				
New building work (e)	"	930	1,040	1,185
Plant and machinery	"	3,987	5,123	5,725
acquisitions (e)	"	70	126	127
disposals	"	253	487	585
Vehicles	"	35	110	128
acquisitions (e)	"			
disposals	"			
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	205	185(f)	223
Total employment, including working proprietors	"	1,087	1,059(f)	1,236

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding outworkers and including working proprietors.

(e) Excluding expenditure for establishments not yet in production.

(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.



TABLE 3 Analysis by size, 1954: Larger establishments in the United Kingdom

Average number employed (a)	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24 (c)	59	1,628	684	674	197	251	120	64	785
25 - 49	53	3,652	1,573	1,476	372	565	243	85	847
50 - 99	66	9,742	4,230	3,919	796	1,620	529	289	897
100 - 199	52	12,535	6,003	6,037	1,291	2,285	801	494	819
200 - 299	35	14,204	6,627	7,186	1,630	2,825	925	548	752
300 - 399	14	7,844	4,027	4,033	887	1,584	536	367	818
400 - 499	11	6,875	3,522	4,195	787	1,545	492	245	707
500 - 749	14	14,865	6,338	6,570	1,770	2,509	987	521	760
750 - 999	11	15,176	7,638	7,679	1,802	2,829	1,242	646	806
1,000 - 1,499	10	23,086	11,179	9,246	2,350	4,060	1,298	492	964
1,500 - 2,499	5	21,042	7,023	8,100	1,909	3,387	1,058	567	702
2,500 - 3,999	3	21,362	7,996	7,280	2,000	3,690	1,132	718	862
4,000 and over	4	65,328	21,477	18,345	4,530	8,966	2,773	2,459	939
Total	337	217,338	88,318	84,740	20,321	36,115	12,134	7,495	841

(a) Excluding outworkers and including working proprietors.

(b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles.

Excluding expenditure for establishments not yet in production.

(c) Including a small number of establishments with fewer than 11 persons employed, particulars of which were included with those for larger establishments on a single return.

Analysis according to specialisation within the industry, 1954

TABLE 4 Larger establishments in the United Kingdom

	Unit	Specialist producers of							Remain-der of the indus-try	Total
		A. Sheets and sheeting of rubber and proofed cloth B. Hose C. Rubber tyres and tubes D. Machinery belting E. Rubber boots and shoes F. Rubber heels and soles G. Cellular rubber products not elsewhere specified								
		A	B	C	D	E	F	G		
Number of establishments	No.	13	7	15	17	7	13	10	255	337
Total value of sales and work done	£'000	4,072	1,663	94,259	13,046	3,538	3,056	8,792	88,206	216,632
Sales of characteristic products	"	2,873	1,420	73,773	9,909	3,039	2,367	7,302		
Products on hand	"	280	68	6,943	1,024	258	78	248	6,158	15,057
for sale and work in progress	"	+ 20	+ 2	+ 14	+ 14	- 26	+ 28	+ 62	+ 591	+ 706
Gross output (production)	"	4,092	1,665	94,273	13,060	3,512	3,085	8,854	88,798	217,338
Purchases of materials and fuel	"	2,406	906	64,892	7,381	2,036	1,584	6,448	45,141	130,794
Stocks of materials and fuel	"	223	113	7,264	1,113	249	314	394	6,125	15,796
at beginning of year	"									
change during year	"	+ 38	+ 12	+ 3,362	+ 228	+ 34	- 16	+ 317	+ 1,230	+ 5,206
Cost of materials and fuel used	"	2,368	894	61,530	7,153	2,002	1,600	6,130	43,910	125,588
Payment for work done on materials given out	"	70	-	33	64	1	5	-	483	657
Payment for transport	"	64	18	1,428	81	28	36	33	1,089	2,776
Net output	"	1,591	753	31,282	5,762	1,480	1,443	2,691	43,315	88,318
Average number of employees	No.	1,558	550	27,316	3,866	2,700	2,133	3,408	43,209	84,740
of operatives	"	349	113	6,779	1,206	317	282	723	10,552	20,321
of others	"	1,908	663	34,095	5,072	3,017	2,415	4,133	53,776	105,079
Total employment (a)	"	834	1,136	917	1,136	491	598	651	805	841
Net output per person employed (a)	£	645	252	13,598	1,668	906	795	1,318	16,933	36,115
Wages and salaries	£'000	213	69	4,109	731	200	181	383	6,249	12,134
of operatives	"									
of others	"									
Capital expenditure	"	55	4	462	44	4	7	21	586	1,185
New building work (b)	"	104	12	2,735	185	46	83	343	2,217	5,725
Plant and machinery	"	1	-	24	4	4	1	13	80	127
disposals	"	10	3	194	23	12	8	19	316	585
Vehicles	"	2	2	30	11	5	1	1	78	128
disposals	"									

(a) Excluding outworkers and including working proprietors.

(b) Excluding expenditure for establishments not yet in production.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

TABLE 5 Larger establishments in the United Kingdom

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
Sheets and sheeting wholly of rubber	Th.cwt.	£'000	Th.cwt.	£'000	Number
Latex			18.1	355	7
Other	127.1	2,048	159.2	1,933	63
			..	514	
Insertion sheeting	43.3	524	33.4	307	24
			..	91	
Rubber sheeting with a textile backing	3.5	116	3.9	88	14
Cloth proofed with rubber	Th.sq.yds.		Th.sq.yds.		
Hospital sheeting (including jaconet and batiste)	1,487	410	1,229	238	14
Other, in single texture or double texture	18,587	4,096	19,443	3,872	32
	..	877	..	776	
Sheets, sheeting and cloth proofed with synthetic rubber	162	87	152	67	9
	..	144	..	300	
Threads wholly of rubber	Th.cwt.		Th.cwt.		
Reclaimed rubber	31.4	1,618	38.0	1,224	5
Rubber compound, sold as such	573.3	2,196	581.2	1,959	10
Hose	313.3	3,508	369.8	3,023	55
Wholly of rubber			19.4	205	16
Not wholly of rubber (wrapped or maundrel made)			..	25	
Suction type	425.1	6,299	77.0	1,751	22
Other	..	249	..	..	
Reinforced by plies of fabric or cotton			242.6	2,012	25
			..	312	
Reinforced by plies, wire braided			30.4	1,261	10
Other descriptions of hose			88.4	1,244	20
			..	328	
Tubing wholly of rubber (other than for medical and surgical purposes)	23.9	469	34.5	668	37
Rubber tyres and tubes	..	120	..	..	
Pneumatic	Thousands		Thousands		
Outer covers, new					
Giant tyres (including 5 in. S.S.)	3,082	55,671	2,754	36,723	13
Tractor and dumper and earth mover vehicle tyres	667	8,818	678	6,265	8
Car (including taxi) tyres	6,654	28,257	6,975	19,043	14
Motor cycle and tri-car tyres	1,048	2,078	930	1,339	11
Pedal cycle tyres	14,804	4,622	15,937	3,866	7
Aeroplane tyres	94	969	121	1,377	8
Animal-drawn and similar vehicle tyres	218	1,093	206	761	6
Barrow, trolley and other tyres	437	563	365	342	12
Inner tubes					
For giant tyres (including 5 in. S.S.)	2,302	3,523	2,056	2,225	11
For tractor and dumper and earth mover vehicle tyres	653	1,007	626	743	6
For car (including taxi) tyres	5,337	3,353	5,993	2,364	11
For motor cycle and tri-car tyres	908	347	872	225	11
For pedal cycle tyres	13,350	1,688	13,484	1,347	8
For aeroplane tyres	65	110	73	115	..
For animal-drawn and similar vehicle tyres	185	146	113	61	..
For barrow, trolley and other tyres	442	120	398	91	7
Cushion, sponge rubber and solid tyres, including solid tyreing sold in the length	Th.cwt.		Th.cwt.		
For perambulators and other baby-carriages	50.6	516	29.9	245	7
Other	70.6	820	158.4	1,750	27
	..	174	..	..	
Camelback and other tyre repair materials	..	3,503	..	2,436	15
Rubber accessories for motor vehicles and cycles, not elsewhere specified	..	6,550	..	5,186	60



TABLE 5 (contd.)

## RUBBER

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
Machinery belting	Th.cwt.	£'000	Th.cwt.	£'000	Number
Balata (including gutta percha) and canvas	20.8	1,375	12.3	677	9
Rubber or rubber and canvas			..	181	
Conveyor and elevator	591.6	18,535	575.8	13,641	16
Power transmission					
Motor vehicle fan belts	22.1	919	24.1	727	7
Other V-belts and round section belts	34.5	2,262	40.8	2,648	15
Other	46.8	2,018	28.3	1,184	19
Rubber valves, washers and rings for industrial purposes (sold separately) not elsewhere specified	44.9	1,454	33.6	1,116	59
Mats, matting, flooring and tiling of rubber, other than of sponge rubber	..	527	..	1,224	
Mats and matting	75.9	820	148.0	1,101	44
Tiling and flooring (including sponge backed) covings and stair nosings	139.5	1,498	121.9	882	39
..			..	312	
Rubber boots	Th.doz.prs.		Th.doz.prs.		
Of a length (front of sole to heel tips) exceeding 11 inches	272	3,152	163	1,704	7
Of a length not exceeding 11 inches	.. (a)	.. (a)	103	978	..
Wellingtons					
Of a length exceeding 9¼ inches but not exceeding 11 inches	204	1,525	142	876	8
Of a length not exceeding 9¼ inches	403	1,975	261	978	10
Other descriptions of rubber boots	99	707	114	836	9
..	..	96	..	..	..
Rubber shoes					
Wholly of rubber	.. (b)	.. (b)	26	38	5
Of rubber and other materials					
Canvas shoes with rubber soles, without heels	1,364	3,974	1,335	3,342	11
Canvas shoes with rubber soles and heels	214	1,128	74	380	9
Other shoes of rubber and other materials	346	1,701	734	3,620	9
..	..	195	..	..	..
Th.cwt.			Th.cwt.		
Rubber soles full and half-size including combined rubber soles and heels	111.8	1,911	129.4	1,772	46
..	..	185	..	679	..
Rubber heels and heel-tips	113.3	1,731	114.6	1,614	22
Th.doz.prs.			Th.doz.prs.		
Rubber gloves and gauntlets	598	832	582	663	22
..	..	..	..	330	..
Th.doz.			Th.doz.		
Bathing caps and helmets	114	126	344	149	9
..	..	56	..	86	..
Rubber balls					
Bladders (football, punchball, water polo, etc.)	126	140	105	101	10
Playballs (including sponge rubber playballs) and other rubber balls for sports and games, including golf ball centres and uncovered tennis balls, but not complete golf and tennis balls (c)	758	366	652	258	17
..	..	43	..	76	..
Toys, wholly or mainly of rubber (excluding balls)					
Balloons	9,746	601	10,407	522	10
Other	..	212	..	382	21
Hot water bottles	563	1,368	782	1,585	16
Medical, surgical and dental products other than sheeting and gloves	..	2,340	..	2,586	36
Air cushions (other than surgical) mattresses and other airproof goods not elsewhere specified (e)	.. (d)	.. (d)	..	301	..
Rubber bands (e)	..	378	..	322	5
Erasers (e)	..	33	..	129	6
Th.cwt.			Th.cwt.		
Printers' rollers, blankets and roller covering materials	10.3	487	15.5	715	18
..	..	267	..	..	..
Thousands			Thousands		
Wringer rollers	1,830	612	2,287	509	18
Industrial rollers	197	254	230	348	33

(86274)

TABLE 5 (contd.)

## RUBBER

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th.gross	£'000	Th.gross	£'000	Number
Sealing and bottling rings	2,769	353	2,412	286	10
Screw stoppers for bottles	485	209	830	264	6
	Th.cwt.		Th.cwt.		
Railway springs, buffer recoils and other rubber products for locomotives, carriages and wagons	43.0	1,070	70.6	1,067	14
Cellular rubber products, not elsewhere specified			..	130	
Mattresses	62.3	1,537	91.1	2,164	7
Upholstery and cushions			210.0	5,090	15
Other descriptions, excluding sponge backed tiling and flooring	168.7	4,074	24.3	370	27
..	..	158	..	493	..
Rubberised hair	..	355	18.1	579	6
..	..	..	..	446	..
Vulcanite, ebonite (other than screw stoppers) and other hard rubber					
Sheets, rods and tubes	10.5	352	11.2	381	11
..	..	81	..	..	..
Battery boxes, plugs and lids	112.5	1,076	172.1	1,140	8
..	..	635	..	272	..
Other manufactures of vulcanite, ebonite and other hard rubber, not elsewhere specified	63.1	1,380	55.2	1,056	25
..	..	266	..	319	..
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber) sold as such	153.6	1,572	149.2	1,583	88
Th.gal.			Th.gal.		
..	63	121	198	609	..
..	..	..	..	121	..
Insulating materials	Th.sq.yds.		Th.sq.yds.		
Cable cloth	17,315	1,766	13,057	1,165	5
..	..	..	..	..	..
Th.cwt.			Th.cwt.		
Varnished and non-adhesive cloth and tape (except cable cloth)	25.0	1,514	7.8	405	12
..	..	394	..	848	..
Adhesive cloth and tape	34.8	746	33.4	527	15
..	..	259	..	432	..
Other descriptions including rubber sleeving	1.6	34	..	904	10
..	..	816	..	..	..
Self adhesive (industrial) tape, pressure sensitive (other than insulating tape, medical adhesive bandage, plaster and derivative) e.g. masking tape used for sealing purposes (e)	17.2	918	..	1,355	6
..	..	494	..	..	..
Miscellaneous rubber goods, not elsewhere specified	68.6	750	..	18,066	143
..	..	13,739	..	..	..
Waste products					
Waste rubber	218.9	286	427.1	353	68
..	..	80	..	..	..
Other waste products	..	295	..	256	55
Work done for the trade or on commission (f)					
Tyres retreaded or remade	Thousands		Thousands		
Giant tyres (including 5 in. S.S.)	657	3,876	653	4,062	45
Car (including taxi) tyres	1,251	3,061	1,725	2,943	49
Other tyres	53	317	83	430	25
..	..	63	..	..	..
Compounding of rubber	..	720	..	749	14
Rubber proofing	..	2,219	..	1,839	24
Other work done for the trade or on commission	..	2,260	..	2,093	50
Total		251,418		211,425	..
Sales in other industries (see Table 6)		7,576		6,998	..
Principal products of this industry sold by establishments in the industry		243,843		204,427	288

(a) Included in figures for 'Other descriptions of rubber boots.'

(b) Included in figures for 'Other shoes of rubber and other materials.'

(c) For golf balls and covered tennis balls see the Sports Requisites Industry Report (Volume 11, Industry E).

(d) Included in figures for 'Miscellaneous rubber goods.'

(e) So far as recorded separately.

(f) Amount charged.

(86274)



Sales of principal products of the industry by establishments  
classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
		£'000	Number	
Sheets and sheeting wholly of rubber other than latex	..	124	..	7H, 7L, 11I
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. 4,025	1,083	5	4J, 7H, 11B
	..	779		
Rubber soles, full and half-size and rubber heels and heel tips including combined soles and heels	Th.cwt. ..	78	18	7L, 10A
Rubber adhesives (including processed latex adhesives and synthetic latex adhesives made from synthetic rubber) sold as such	Th.gal. 5.8 147	55 77	5	2K, 2Q, 7H, 10A
	..	..		
Insulating materials including cable cloth, varnished and non-adhesive cloth and tape and adhesive cloth and tape	..	1,129	15	1L, 4K, 4L, 7H
Miscellaneous rubber goods including rubber sheeting with a textile backing; reclaimed rubber; rubber compound, sold as such; rubber accessories for motor vehicles and cycles; 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; hot water bottles; rubberised hair; erasers; rubber bands; air cushions (other than surgical); mattresses and airproof goods; bathing caps and helmets; hose; machinery belting; cellular rubber products (upholstery and cushions); tiling and flooring (including sponge backed) covings and stair nosings; manufactures of vulcanite, ebonite and other hard rubber; self-adhesive (industrial) tape	..	3,673	36	2F, 4I, 7A, 7L
Total		6,998	..	

(a) The volume number and industry references given are to the industries shown in the list at the back of this report.

Sales in the industry of other than principal products

Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Thousands	£'000
Proofed, etc. garments	409	408
	..	131
Golf balls and tennis balls, covered ready for use	Th.doz. 889	755
	Th.cwt. 1.2	48
Synthetic rubber	..	41
	108.4	1,721
Plastics materials	..	178
	..	3,652
Boots, shoes, sandals, slippers, not mainly of rubber and parts thereof	..	138

(86274)

TABLE 7 (contd.)

	1954	
	Quantity	Value
		£'000
Machinery, parts, accessories and other engineering products, other than of rubber and synthetic rubber, except typewriter rollers and oil seals	..	791
Parts and accessories (not wholly of rubber) of motor vehicles and pedal cycles	..	317
Chemical manufactures including bituminous products, polishes, inks, stains, dyes, gums, varnishes and lacquers	..	567
Surgical and medical dressings	..	561
Other goods	..	2,898
Total	..	12,205

Total make of certain products returned in this industry

Larger establishments in the United Kingdom

TABLE 8

	1951	1954	Entries
	Quantity	Quantity	
	Th.cwt.	Th.cwt.	Number
Sheets and sheeting wholly of rubber			
Latex	293.2	20.6	6
Other		309.4	50
Insertion sheeting	46.0	36.0	22
Rubber sheeting with a textile backing	4.2	3.3	12
Cloth proofed with rubber	Th.sq.yds.	Th.sq.yds.	
Hospital sheeting (including jaconet and batiste)	4,140	1,202	12
Other, in single texture or in double texture	60,452	28,226	25
Sheets, sheeting and cloth proofed with synthetic rubber	..	183	8
	Th.cwt.	Th.cwt.	
Threads wholly of rubber	38.7	42.0	5
Reclaimed rubber	653.0	661.6	13

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.tons	£'000
Materials		
Natural rubber, raw		
Rubber latex (dry rubber content)	41.0	9,042
Sole crepe	11.6	1,867
Other	174.7	30,020
Synthetic rubber	8.0	2,431
Reclaimed rubber	23.0	1,536
Waste rubber	52.0	537
Balata	..	139
Rubber compound	17.1	3,032
Rubber substitute (factice)	1.6	276
	Th.cwt.	
Anti-oxidants	40.4	929

(86274)



TABLE 9 (contd.)

	Quantity	Cost
	Th.cwt.	£'000
Materials (contd.)		
Blacks		
Gas carbon blacks	377.0	1,539
Other	845.1	3,511
Dyes and dyestuffs (including pigment dyestuffs)	16.5	319
Fillers	1,453.4	1,387
Pigments		
Lithopone	57.3	154
Zinc Oxide	266.7	1,227
Other	196.0	923
Rubber accelerators	52.6	1,007
Softeners, plasticisers, and tackifiers	427.5	1,692
Solvents	Th.gal.	
Solvent naphtha	3,924	885
Other	2,851	662
	Th.cwt.	
	48.9	257
	Th.lb.	
	..	1,967
Plastics materials	..	1,967
Yarn of cotton, rayon, nylon, etc.	19,697	4,687
Tyre cords and fabrics	Th.sq.yds.	
Of cotton	11,794	3,179
Of rayon, nylon, etc.	57,157	11,685
Woven piece goods		
Of cotton or mainly of cotton	90,419	15,455
Of rayon, nylon, etc. or mainly of rayon, nylon, etc.	4,074	513
Of other materials	13,669	2,149
	..	292
	Th.lb.	
	718	320
Narrow fabrics of all materials	..	185
	Th.sq.yds.	
	107	21
Knitted fabrics	..	38
	5,191	990
Rubber coated fabric	..	155
	Th.lb.	
	2,764	297
Hair	..	789
Bead wire	..	786
Tube valves	..	786
Packing materials		
Paper, board, and containers made of paper and board	..	1,718
Timber and containers made of timber	..	249
Other	..	750
Replacement parts for machinery, plant and vehicles	..	2,005
Consumable tools bought as replacements	..	376
All other purchased materials	..	12,176
Fuel and electricity	Th.tons	
Coal	650.0	2,400
Coke	14.6	79
Liquid fuel (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	1,620	317

TABLE 9 (contd.)

	Quantity	Cost
	Th.gal.	£'000
Fuel and electricity (contd.)		
Liquid fuel (including creosote/pitch mixtures) (contd.)		
For use in internal combustion engines (contd.)		
Other	209	14
For burning in furnaces, boilers, kilns, etc.	9,304	354
Gas purchased	Th.therms	
From Gas Boards, and other sources, including other departments of the same firms	3,595	186
Electricity purchased (a)	Th.kWh.	
From Electricity Boards	703,088	3,125
From other sources, including other departments of the same firms	15,299	80
	..	10
All other purchased fuel		72
Total cost		130,794

(a) The total quantity of electricity generated in firms' own establishments in this industry in 1954 was 7,167 Th.kWh.

Average number of employees and wages, salaries and superannuation payments (a)

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	81,088	84,740
Administrative, technical and clerical employees	18,475	20,321
Total	99,563	105,061
Wages and salaries paid to	£'000	£'000
Operatives	28,532	36,115
Administrative, technical and clerical employees	9,418	12,134
Total	37,950	48,250
Wages and salaries per head	£	£
Operatives	352	426
Administrative, technical and clerical employees	510	597
Superannuation and other pension funds for employees and dependents (b)		£'000
Employers' contributions	..	762
Employees covered	..	Number
		47,426



TABLE 10 (contd.)

	1951		1954	
	Number		£' 000	
Pension, etc. payments to former employees and dependents (b)			94	

(a) The following persons not included above were also employed by larger establishments in this industry ('other workers' included for example, employees engaged in merchanting). Payments to outworkers are also shown.

	1951		1954	
	Number		Number	
Canteen workers				
Male	57		37	
Female	886		854	
Total	943		891	
Other workers				
Male	769		1,290	
Female	303		686	
Total	1,072		1,976	
Total excluded employees	2,015		2,867	
Outworkers				
Male	83		118	
Female	926		1,057	
Total	1,009		1,175	
Payments to outworkers	£' 000		£' 000	
	99		110	

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)  
Larger establishments in the United Kingdom

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	18	2	20	16	2	18
Operatives	55,800	26,985	82,785	58,111	29,397	87,508
Administrative, technical and clerical employees	12,217	6,740	18,957	13,573	7,093	20,666
Total employees	68,017	33,725	101,742	71,684	36,490	108,174

(a) Week ended September 22, 1951, or October 30, 1954.

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- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
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- H. Glass Containers
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- H. Scrap Metal Processing
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- K. Printing and Publishing, Bookbinding, Engraving, etc.

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