144 Rubber

This Report on the Rubber Industry relates to establishments engaged wholly or mainly in manufacturing and re-treading solid and pneumatic tyres of all types and inner tubes; rubber sheeting, soles and heels, sponge rubber, rubber tubing and hose, cellular rubber, rubber gloves, bathing caps, underwater equipment, inflatable goods, toys, uncovered balls, matting, flooring and tiling, components and accessories not elsewhere specified. The manufacture of plastics belting, plastics hose and synthetic rubber products and the backing of carpets with rubber or plastics materials on commission are also included but the manufacture of synthetic rubber, rubber footwear and moulded parts of footwear, weatherproof outerwear, covered rubber mattresses and pillows, rubber adhesives and covered rubber thread are all excluded.

This industry corresponds to minimum list heading 491 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry corresponds to the Rubber Industry (Part 119) in the Reports on the last detailed Census of Production for 1963 except that heavy overalls and industrial aprons of rubber or plastics are now included in the Overalls and Men's Shirts, Underwear, Etc Industry (Part 119), covered mattresses, pillows, etc of rubber in the Bedding and Soft Furnishings Industry (Part 133), formulated rubber adhesives in the Formulated Adhesives, Gelatine, Etc Industry (Part 38), and rubber footwear, etc in the Footwear Industry (Part 124). In addition plastics belting and plastics hose, etc previously shown in the Plastics Moulding and Fabricating Industry Report (Part 124) and the work of backing carpets with rubber or plastic underlay done on customers' own materials which was shown as a principal product of the Carpets Industry (Part 83), in the 1963 Reports, are now both included in this industry.

Throughout this Report the figures given for 1963 have been reclassified as far as possible according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only has been arbitrary.

TREATMENT OF FABRICS BACKED WITH PLASTIC FOAM AND FABRIC TO FABRIC BONDED MATERIALS

Fabric backed with plastic foam and fabric to fabric bonded materials are shown as principal products of the same industry as the main fabric rather than that of the material used for the backing, bonding or lining. Thus where the main fabric is cotton, linen and man-made fibres, woollen or worsted, or knitted fabric the sales are shown in the Table 5 of the reports on the Weaving of Cotton, Linen and Man-made fibres (Part 100), Woollen and Worsted (Part 101) and Hosiery and Other Knitted Goods (Part 104) respectively. Total sales of all fabric backed with foam and fabric to fabric bonded materials, reported in the census together with those reported by textile converters in a separate inquiry, are brought together in a supplement to Table 5 in the report on the Weaving of Cotton, Linen and Man-made Fibres Industry (Part 100).

Sales of fabric backed with plastic foam and fabric to fabric bonded materials were not taken into account in classifying returns to the three textile industries in which they are shown. Where fabrics were foam backed or bonded on commission, returns reporting doing this work were classified to the Textile Finishing Industry (Part 110).

METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure except for the special treatment of fabric backed with plastic foam and fabric to fabric bonded materials referred to above. The classification of returns to subdivisions of the industry followed the standard procedure.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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- (c) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (d) Administrative, technical and clerical employees.
- (e) Excluding expenditure for establishments not yet in production.
- (f) Acquisitions <u>less</u> disposals.

ABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

		The second secon	Unit	All establ	lishments
		- En-pained (as a)	Onit	1963	1968
Number of enterprises	basi ang	ting the contract output	No.	404	383
Number of establishmen	its	The second secon	"	534	548
Gross output		000.2 000.3 over 1989 Pares	£.000	368,348 167,749	521,997 258,584
let output			£	1,432	2,089
Net output per head			T.000	343,308	465,329
Sales and work done	1,910	goods produced and work done (c) merchanted goods and canteen takings	1 000	25,160	52,327
	305,5 010,2	materials for use in production and packaging and fuel	"	172,631	211,201
yments to other ganisations ocks and work in progress	goods for merchanting and canteen purchases	"	20,861	44,875	
		for work done on materials given out	"	1,753	2,336
		for transport	n	7	
Payments to other	407,1	by road	"		7,022
organi saviene	as and work in progress tal stocks and work in spress	by rail and other means excluding postal services	"	5,012	1,276
Stocks and work in pro	ogress			1690	
		change during year	п	- 461	+ 7,638
progress	rk III	at end of year	11	62,882	89,380
		change during year	п	- 619	+ 3,112
Goods on hand for s	al e	at end of year	a	33,766	49,057
		change during year	"	+ 500	+ 1,229
Work in progress		at end of year	н	9,309	13,635
		change during year		- 342	+ 3,297
Materials, stores a	and fuel	at end of year	"	19,806	26,687
		total, including working proprietors	Th.	117.1	123.8
Number employed on av	erage	operatives	11	87.7	90.2
during the year		other employees (d)	0	29.1	33.3
			£,000	62,564	92,514
Wages and salaries		of operatives of other employees (d)	"	27,085	41,544
Conital amonditure	(0)	or defice ampropers (a)	1 990		ere de
Capital expenditure	(6)		п	15,794	37,236
Total			11	1,913	5,736
New building work	huildings	569	"	63	- 472
Land and existing			"	13,020	30,733
Plant and machiner	y (1)			797	1,238
Vehicles (f)		80,1 EGS, S 1,086,0 110,K	"	191	1,200

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 3 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 1 per cent. For 1963 the comparable figures were 2 per cent. and 1 per cent. respectively.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

mate for small establishments in	lot making battbractory	
	1963	1968
Number of establishments	226	242
Average number employed: Working proprietors	}2,111 {	203
Other persons employed	\(\frac{2}{111} \)	2,316

Footnotes continued on page 144/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab- lish- ments	Enter- prises(b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£,000	£
1-5	59	59	201			
6-10	57	55	460	awa Inde		
11-24	89	82	1,590			
25-49	49	44	1,797	6,537	3,443	1,916
50-99	60	51	4,150	17,142	9,231	2,224
100-199	55	45	7,968	33,557	17,578	2,206
200-299	37	30	8,857	29,145	14,525	1,640
300-399	17	12	5,789	20,721	9,713	1,678
400-499	18	17	7,998	25,578	14,523	1,816
500-749	12	11	7,013	21,731	12,524	1,786
750-999	13	11	11,369	50,153	26,428	2,325
1,000-1,499	11	10	13,083	42,802	22,299	1,704
1,500-1,999	3	3	5,354	20,676	10,018	1,871
2,000-2,499	4	3	8,879	37,788	17,307	1,949
3,000 and over	7	6	37,747	200,277	93,121	2,467
Unsatisfactory returns	57	56	1,524	distribute establis		Chief Chief
Total	548	383	123,779	521,997(c)	258,584(c)	2,089(c

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Empl	oyees	Wages and	d salaries		salaries head
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)
1 200 1 200	Number	Number	£'000	£,000	£	£
1-5						
6-10					Carlina Temas	
11-24					decome to	
25-49	1,417	356	1,179	465	832	1,306
50-99	3,320	809	2,906	1,081	875	1,336
100-199	6,139	1,826	5,459	2,463	889	1,349
200-299	6,811	2,044	5,901	2,379	866	1,164
300-399	4,260	1,529	3,986	1,788	936	1,170
400-499	6,016	1,978	5,286	2,273	879	1,149
500-749	5,180	1,828	5,256	2,090	1,015	1,143
750-999	8,398	2,971	9,222	3,573	1,098	1,202
1,000-1,499	10,098	2,985	9,359	3,557	927	1,192
1,500-1,999	3,322	2,032	3,360	2,472	1,011	1,217
2,000-2,499	6,929	1,950	6,399	2,930	923	1,503
3,000 and over	25,733	12,014	31,533	15,272	1,225	1,271
satisfactory returns	Sagara • • • • • • • • • • • • • • • • • •	2010			and too to form	2 55 98 10
Total	90,230(c)	33,285(c)	92,514(c)	41,544(c)	1,025(c)	1,248(c)

⁽a) Including working proprietors.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	1	2
18 and over	73	25	98
All ages	74	26	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4.

- (a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 5 establishments in 1968 and 10 in 1963.
- (b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-division are identified in Table 5.
- (c) The sum of the figures for the sub-divisions exceeds the total for the industry to the extent that enterprises made returns for more than one sub-division.
- (d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
- (e) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £417,000 in 1968. Similar information is not available for 1963.
- (f) Characteristic products relate only to specific subdivisions of the industry.
- (g) For sub-divisions of the industry, this is the ratio of sales of characteristic products to total sales of goods produced and work done. For the industry as a whole, this is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (h) Administrative, technical and clerical employees.
- (i) Excluding expenditure for establishments not yet in production.
- (j) Acquisitions less disposals.

⁽b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

⁽c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

⁽d) Administrative, technical and clerical employees.

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For footnotes to this table - see page 144/5.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)

		dest house	Sub-d	ivisions of	the indust	try (b)	Sub	-divisions of	the industry	(b)		
		Unit		and tubes		ded tyres	Hose and (including and bel	tubing fitments)	Remainder indus	of the	Tota	al
			1963	1968	1963	1968	22	THE PARTY OF THE P	21,5	1968	1963	1968
Number of enterpris	(c)	No.	9	9	14	+	1963	1968	1963	133	179	157
Number of establish		"	22	21	24	16 30	22	15	145	213	305	291
Gross output	inch'es	£,000	172,076	255,488	10,586		36	27	223		360,080	506,385
Net output		2 000	74,773	116,940	5,286	20,719	39,181	46,278	138,237	183,900	163,984	250,850
Net output per head		£		300000		12,146	16,790	23,505	67,135	98,258	1,432	2,089
Net output per head			1,738	2,425	1,542	2,513	1,384	1,848	1,201	1,809	1	451,412
Sales and work done	goods produced and work done (d)(e) merchanted goods and canteen takings	£'000	158,781 13,691	215,112 38,512	8,837 1,625	18,692	36,427	43,810	131,557	173,798	335,602	50,762
Solog of characteri							2,754	1,962	6,525	8,431	(f)	(f)
Sales of characteri	istic products		126,201	184,749	8,432	16,745	29,902	35,620	(f)	(f)		
Index of specialisa	ation (g)	Per cent.	79	86	95	90	82	81	or tather the		92	93
Purchases	materials for use in production and packaging, and fuel	£,000	82,077	101,378	3,769	6,891	19,729	20,983	63,180	75,633	168,756	204,884
	goods for merchanting and canteen purchases		10,915	33,815	1,381	1,393	2 222	1 664	5,765	6,661	20,393	43,533
	(for work done on materials given out	n	992	253	46	7	2,333	1,664	640	1,830	1,714	2,266
Payments to	for transport	and the second s	002	200	10		35	176	040	1,000	La Tanini	
other organisations	by road	"] [3,744	1	272		353		2,443		6,812
organisations	by rail and other means excluding postal services		2,861	647	49 {	44	392	Smirt OOP Street	1,597	397	4,900	1,238
Stocks and work in)					150		001	700	
Goods on hand	Change during year	"	- 531	+ 1,796	+ 103	+ 165	- 223	- 10	+ 45	+ 1,068	- 605	+ 3,019
for sale	at end of year	"	24,241	33,530	749	1,342	2,075	3,513	5,943	9,205	33,008	47,590
Work in	change during year	п	+ 135	+ 69	+ 21	+ 5	+ 224	+ 515	+ 110	+ 603	+ 489	+ 1,192
progress	at end of year	"	3,114	3,892	93	230	1,593	2,762	4,300	6,343	9,100	13,227
Materials,	Change during year	ıi i	- 458	+ 1,288	- 55	+ 35	+ 99	+ 554	+ 80	+ 1,321	- 334	+ 3,198
stores and fuel	at end of year	п	8,892	11,782	417	639	2,145	2,780	7,908	10,687	19,362	25,889
	(total, including working proprietors	No.	43,032	48,216	3,427	4,834		12,720	55,909	54,307	114,496	120,077
Number employed on average	operatives	"	31,138	33,156	2,289	3,785	12,128 8,839	9,291	43,729	41,442	85,995	87,674
during the year	other employees (h)	"	11,894	15,059	1,133	1,045	3,287	3,425	12,168	12,814	28,482	32,343
W	(of operatives	£,000	26,117	40,353	1,641	3,963	5,978	8,871	27,594	36,706	61,330	89,893
Wages and salaries	of other employees (h)	"	11,626	19,160	883	1,159	2,918	3,998	11,110	16,051	26,537	40,368
Wages and	foperatives	£	839	1,217	717	1,047	676	955	631	886	713	1,025
salaries per head	other employees (h)	"	977	1,272	779	1,109	888	1,167	913	1,253	932	1,248
Capital expenditure		1000					000	1,10	201 234 2531 21	DE. B	101,151,10	the contract
New building work		£'000	840	4,021	46	168	150	200	811	1,076	1,870	5,565
Land and	(acquisitions	2 000	117	7	76	78	173	300	158	543	423	802
existing buildings	disposals		24	125 (j)		-	71	4(j)		1,209	361	1,260
		"					8)	321		12,969	30,507
Plant and machinery	facquisitions	"	7,199	19,275	216	749 17	890	4,212	4,665	6,270	241	693
nastang ng "Nag pale" 63	disposals	,	39	205	4	173	32	79	167	755	1,171	1,843
Vehicles	acquisitions	"	504	780	74	32	103	135	490	344	392	642
	disposals		146	196	27	34	48	69	171	344	002	

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Industry		196	3		1968		
sub- division (a)	to said	Quantity	Value	Quantity	Value	Enter- prises	Entrie
		Th.tons	£'000	Th.tons	£'000	Number	Numbe
21,23	Reclaimed rubber (excluding waste ground rubber)	42.9	3,397	34.6	2,583	8	8
21,23	Rubber compound, sold as such	45.6	9,330 {	39.4	8,047 3,266	42	55
21,23	Other rubber sold for further processing (eg sold in sheets)	5.2	1,327 1,2446)	19.2	3,703 897	29	35
	Rubber fabricated materials and rubber manufactured articles (excluding footwear)	96		162,1		342 14	
21,23	Sheets and sheeting, proofed cloth, etc (excluding cellular products, matting, floorings, etc, and sheet for soling and heeling)	200 YORK 75	a a	1400, 161 ** 1689, 4 A 1689, 4 IS			
	Sheet and sheeting wholly or mainly of rubber (including sheet- ing with a textile backing)		Page Page	. 79		77 (0)	
	Printer's blankets	1	5	PORTUSO	1,579	7	7
	Other]	4,125		3,414	29	33
	Cloth and felts proofed with rubber (including spread fabrics)	Th.sq.yds. 14,606	3,959 646	Th.sq.yds. 10,566	4,015 1,491	} 20	24
	8,812/00	Th.cwt.		Th.cwt.			0
21,23	Threads wholly of rubber	60.9	2,486	60.5	2,600	6	8
22	Hose and tubing other than for medi- cal and surgical uses (excluding that made wholly or mainly of plas- tics materials)	- 5939		ends of		120 60	
	Wholly of rubber		1,459	Separate 3	2,944	19	23
	Of rubber and other materials	Th.ft.		Th.ft.		A4 12	
	Long length moulded and braided hose	44,391	1,791	56,986	2,545	9	11
	Mandrel made, wrapped ply and yarn braided (excluding suction hose)	53,570	4,781	77,076	6,451	19	27
	Suction hose (including oil suction and discharge hose)	2,973	1,924	estate.	3,457	17	21
	Wire braided hose	22,085	4,340	49,723	8,887	11	15
	Spirally wound hose	1,908	471	North .	612	5	6
	Other hose and tubing		2,847	0.920	3,305	18	23
	Total hose and tubing other than for medical and surgical uses (excluding that made wholly or mainly of	124,927	13,306	183,786	17,883	1	
	plastics materials)		4,306		10,318	J	
22	Belting wholly or mainly of rubber	in a		Th.cwt.		1 100	
	Conveyor and elevator	1.	6,210	295	7,829	15	18
	Power transmission	noi lea, em		53.1	2,517	1 8	10
	V belts and round section belts	100	4,222 {	es nati	2,880	1	10
	Other transmission belts		1,860 {	22.3	1,026 1,562	} 13	16
	Total belting wholly or mainly of rubber	546	12,291	371	11,372 4,441	}	

marker 5 (continued)

Industry	120	19	63		1968		
sub- livision		Quantity	Value	Quantity	Value	Enter- prises	Entries
	Rubber fabricated materials and rubber manufactured articles (excluding footwear (continued)	Th.sq.yds.	£,000	Th.sq.yds.	£,000	Number	Number
21,23	Mats, matting, floorings, etc, wholly or mainly of rubber (in- cluding sponge backed), other than cellular products		originals :	or recolute A			12.16 12.16
	Mats and matting	1,377	939 871	1,044	738 1,675	20	23
	Flooring, tiling, etc					2	
	Rolls	322	314	110	130 40	5	5
	Tiles (including wall tiling)	214	299	338	566	8	8
	Other (including covings, stair nosings, etc)		335	corne and	244	8	8
	Total mats, matting, floor- ings, etc, wholly or mainly of rubber (other than cellular products)	1,913	1,552 1,206	1,492	1,434 1,959	}	
21,23	Underwater swimsuits and frogmen's outfits of rubber		(c)	Thousands 3.8	93	*	*
21,23	Rubber gloves and gauntlets	Th.pairs 38,600	3,657	Th.pairs 66,453	5,172	9	9
21,23	Rubber dinghies, inflatable life- rafts and other air-sea rescue equipment mainly of rubber		(c)		4,473	7	8
21,23	Sports goods wholly or mainly of rubber (including football bladders, golf ball centres, playballs, bathing caps and helmets, etc, but excluding completed golf or tennis			910	inustrus inter		
	balls)	••	1,571		2,237	16	18
21,23	Toys, wholly or mainly of rubber	••	1,024		892	8	8
	Place of the state	Thousands	2,072	Thousands	1.540		0
21,23	Hot water bottles	11,560	282	7,564	1,543	8	8
21,23	Medical, surgical and dental pro- ducts (including teats, prophylac- tics, etc, but excluding sheeting, gloves, and surgical and medical			Period	erns#		
	dressings)		6,094		9,383	21	26
21,23	Cellular products wholly or mainly of rubber (excluding plastic foams)			860	C L Park		
	Uncovered rubber upholstery and foam specifically for motor vehicles		1 1 1 1	ſ	1,049	*	*
	Uncovered rubber mattresses, pillows, bolsters, and mouldings and sheeting for upholstery and cushions (other than for motor		3,075		ta foilbh		
	vehicles)	J	San William	L	2,401	7	7
	Rubber underlay for carpets and ru	Th.sq.yds	1,510 1,301	}	4,376	6	6
	Other (excluding fully finished mattresses and covered bolsters, pillows and cushions)	281 (8)	1,769		3,601	15	16
	Total cellular products wholly or mainly of rubber (excluding plastic foams)		7,655		11,428		

TABLE 5 (continued)

Industry sub-		400	190	33	1968				
division (a)			Quantity	Value	Quantity	Value	Enter- prises	Entri	
roused t	Rubber fabricated materials and rumanufactured articles (excluding fwear) (continued)	ibber cot-	Th.cwt.	£,000	Th.cwt.	£'000	Number	Numbe	
21,23	Rubberised hair	{	32.6	669 552	}	928	5	5	
21,23	Manufactures of vulcanite, eboni or hard rubber	te	••	3,910	o (Degrand error	3,769	12	14	
21,23	Pressure sensitive self-adhesive cloth and tape (other than for medical and surgical dressings) the adhesive mainly of rubber				9811 99 (65)				
	Cloth			496(b)		754	5	5	
	Tape (including filmic)			1905/13/	Francisco Populari				
	For insulating purposes		η	10000	harana sarti	1,367	7	8	
	Other		}	8,560(b)		10,988	7	7	
21,23	Insulating materials (including		3	STREET STREET		10,500		,	
21,20	cable cloth and varnished and no adhesive tape but excluding self adhesive cloth and tape)		M (6) M () M	2 ,6 53	ending and continued and from an own	890	5	5	
11	Tyres and tubes, new						0.00		
	Car tyres								
	Of rim diameter 12 inches an over	d		Teller at	eronomy dyn Ledyddiol y gyn				
	Tubeless		Thousands		Thousands		108 1		
	Radial ply		1	1	2,859	11,421	7	9	
	Other				14,910	47,405	7	10	
	Other			# 1230 3 1943 # 1340 5 11					
	Radial ply				2,665	9,693	6	9	
	Other			and the second	1,820	6,573	6	9	
	Of rim diameter under 12 inc	hog	(3) (3)		1,020	0,010		3	
	Tubeless	nes	15,170	48,003	os ins levi				
	Radial ply			- salaging of a	599	1,985	*	5	
	Other				1,607	3,640	6	7	
	Other								
	Radial ply			***************************************	111	406	5	5	
	Other			Bras and	89.0	240	5	6	
	Commercial vehicle tyres				TOTAL CLASSES				
	Radial ply]		1,396	26,960	6	6	
	Other		2,913	43,567	2,532	39,080	7	10	
	Tractor, earthmover and land/r	heo:	J	l					
	tyres	Jua	1,252	15,318	1,351	19,253	*	7	
9	Motor cycle tyres		455	977	529	1,212	*	5	
	Scooter tyres		352	459	238	365	. 6	7	
	Bicycle tyres		10,717	3,249	6,753	2,087	*	*	
	Aero tyres		85.0	1,560	101	2,466	*	*	
			Th.cwt.		Th.cwt.				
	All other (including solid tyrand solid tyring sold in length	res [73.4	992 759	79.0	1,470 782	15	17	

TABLE 5 (continued)

ndustry	The second secon	19	63		1968		
sub- ivision (a)	Volue Quantity Value 1850	Quantity	Value	Quantity	Value	Enter- prises	Entrie
	Rubber fabricated materials and rubber manufactured articles (excluding foot-wear)(continued)	Thousands	£*000	Thousands	£'000	Number	Number
11	Tyres and tubes, new (continued)	1900					
**	Tubes	C.88-		are of relation		0	
	Car	4,815	2,454	6,232	3,214	7	9
	Commercial vehicle	-	2,761	lays (bir.la)	3,518	7	9
	Tractor, earthmover and land/		1,522	ASTRONOMY STATES	1,387	*	6
	Bicycle	10,231	1,326	7,197	1,102	*	5
	Motor cycle and scooter	7	1,525	648	219	5	6
	Other (including aero)	1,395	492 {	eddara da i.s. es	356	6	7
	Total tyres and tubes other	,				HE SEE	
	than retreaded tyres		123,440		184,836	639.	••
12	Tyres, retreaded (other than those retreaded on commission)				o et		
	Car	3,752	8,414	terra c. e	12,619	16	29
	Commercial vehicle	597	5,802	800	8,006	16	29
	Other	91.0	1,228	98.0	1,855	11	15
11	Tyre repair materials and kits		1,747(b)		1,123	6	9
21,23	Rubber components and accessories for use in road vehicles, not else- where specified		19,564	edd for tarid	25,796	54	71
	Rubber components and accessories for use in vehicles other than road vehicles (including aircraft, loco- motives, carriages and wagons and ships)	Has Cales Section And Advanced in the Cales Cale	3,416	DAGE SOF SES MINISTERS SOCIAL MINISTERS SOCIAL J. ZWING TO SO	6,908	33	40
	Rubber valves, washers, rings, etc, and other components and accessories not elsewhere specified	L minds ata	12,003	La live force with La sinconser in La sincola La sincola la La	27,554	78	101
	Roller coverings		(c)		2,920	27	29
	Waste rubber	Th.cwt.		Th.cwt.			
	Ground			174	296	7	10
	Ot he r	509	376		154	18	26
	Goods wholly or mainly of plastics materials (excluding footwear)	Th.ft.	land and				
22	Conveyor, elevator and transmission belting	6,992	9,009		5,406	11	11
22	Hose and fitments		2,623		2,950	24	25
21,23	Parts of boots and shoes (d)						
	Rubber soles, full and half soles		3,765		2,018	18	21
	Rubber heels and heel tips		1,709		891	15	20
21,23	Rubber soling and heeling sheet (d)		3,522	••	1,818	18	21
	Other products (including meteorological balloons, mainly of rubber)		16,706		3,576	37	43
	Waste products (other than waste rubber)		252		152	20	25

Continued on next page.

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TABLE 5 (continued)

Industry	2002	190	3 3		1968		
sub- division (a)	Patris Spanier Patrick States	Quantity	Value	Quantity	Value	Enter- prises	Entri
rodbied :	Work done	Thousands	£'000	Thousands	£'000	Number	Numbe
12	Retreading tyres			1938) (1911)	The way Jones		
	Car tyres	904	2,071	811	1,438	5	5
	Commercial vehicle tyres	86.0	619	122	819	5	5
	Othe r	23.0	382	58.0	528	*	*
21,23	Coating of metal with rubber or plastics (including dip coating of pipes, wires, etc)		1,849 (b)	'alsalm	2,816	21	22
21,23	Compounding of rubber		65		75	5	6
21,23	Proofing or coating cloth with rubber or plastics materials		866	topin the	1,389	13	14
21,23	Backing carpets with rubber or plastic underlay Other work done	}	1,515	rava success t tank energy of towns a	4,803	24	24
	Total		319,313	yedini il	433,663		
8	Sales in other industries (see Table 6)	557,55-	10,285	0.51	12,854		
	Principal products of this industry sold by establishments in the industry	0.16	309,029		420,809	157	232

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.
- (b) Revised figures.
- (c) Not recorded separately for 1963.
- (d) Including moulded rubber bottoms (soles and heels) which were not distinguished separately for 1963. For 1968, total sales of moulded rubber bottoms (soles and heels) are included in the Report on the Footwear industry (Part 124).
- (e) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Baci Chir	1963		1968	
a for see in general los outs?	Value	Value	Entries	Principal industries in which produced (a)
(log) heling compa, seks, seks pate balance	£'000	£'000	Number	minda janjasa.
Rubber compound, sold as such; other rubber			91	elisation antiqui?
sold for further processing (eg sold in sheets)		1,374	7	29,38,136,149
Rubber fabricated materials and rubber manufactured articles (excluding footwear)	1,968		ERICAL A	etra bea inggan
Sheets and sheeting, proofed cloth, etc (excluding cellular products, matting,	7,000		n v Slich	ta seri cifett
floorings, etc and sheet for soling and heeling)	J	1,158	7	59,84,116,145
Hose and tubing other than for medical and surgical uses (excluding that made wholly] [1 34	samborg telder
or mainly of plastics materials)		472	*	52,58,111,149
Belting wholly or mainly of rubber	} 1,454 {	167	*	66,111,145
Mats, matting, floorings, etc wholly or mainly of rubber (including sponge backed) other than cellular products	(a) mu	150	*	34,97,145
Rubberised hair	(b)	468	*	101,133,149
Pressure sensitive self-adhesive cloth and tape (other than for medical and surgical dressings) with the adhesive mainly of rubber; insulating materials (including cable cloth and varnished and non-adhesive	705	1,109	*	72,74
tape) Hose and fitments and belting wholly or	ione and in	rest wal tolly	A Barrier	a umu-sa A Va V
mainly of plastics materials	996	2,325	24	34,45,66,149
Rubber soles, full and half soles; rubber heels and heel tips; rubber soling and				1.00
heeling sheet	756	239	11	124,149
Other rubber products	4,287	4,999	24	69,133,145,149
Work done				
Coating of metal with rubber or plastics (including dip coating of pipes, wires, etc), backing carpets with rubber or	regioning i bna 6001 14	rester to	de tra	ari 18 Alika
plastic underlay, and proofing or coating cloth with rubber or plastics materials	117	393	13	106,145,149
Total	10,285	12,854	andri a	T

⁽a) The references given are to the list of industries at the front of this report.

⁽b) For 1963, included in 'Other rubber products'.

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

		The second line of the second line of the second	_
		1963	1968
		Value	Value
Cal broadway	200	£,000	£'000
Chemical manufactures and adhesives		2,785	1,420
Plastics materials		1,279	644
Machinery, parts and accessories and products other than of rubber and sy		1,239	3,255
Proofed and other garments		3,600	179
Boots, shoes and slippers		3,000	4,627
Plastic foam products		3,055	4,642
Other plastic manufactures		4,239	4,959
Other products		7,454	8,664
Work done		iplacentag	teriorei epi inale
Backing textile piece goods with ping combining and laminating and bonding)		519	273
Services rendered to other organisa	tions (a)	2,403	1,941
Total value of goods sold without hat to any manufacturing process (mercha	aving been subjected anted or factored)	23,651	49,594
Canteen takings		943	1,168
Total		51,167	81,365

⁽a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

ZARON TO REPUBLISH TO SHORE THE CONTROL OF THE CONT	19	63	196	88
	Quantity	Cost	Quantity	Cost
Materials for use in production	The same of same	£,000	Th.tons	£,000
Natural rubber			Annual Control	
Latex	Listan Indi	4,891	24.2	3,774
Other (including crepe, gutta-percha, balata)	red ada. and	25,148	148	24,101
Synthetic rubber	Appear to Design	CO13 6 (10 60 C/13)	MILANTON, NO.	
Latex	ni il assinot	1,898	18.6	3,803
Other		22,748	229	29,591
Ground waste rubber	1,000	516	13.1	481
Waste or scrap rubber (including synthetic rubber), balata, gutta-percha, etc, unhardened or hardened, not elsewhere specified		1,147 {	36.4	476 263
Reclaimed rubber		2,440	29.2	2,056
Compounded rubber		3,910	31.0	5,874
Factice	192380	267		281
Tyre valves and parts		(a)		870
Dyestuffs and pigments		pair (all)	inalgat, acc	treation of the
Titanium dioxide		175V	ala arresta	419
Other (including pigment dyestuffs, lithopone, zinc oxide, but excluding blacks)	}	2,240 {	(yn) widi't Frank •• Octo	2,350
Glues and adhesives (including formulated adhesives, but excluding unformulated synthetic resins bought as such)	Tr. comm	(a)		491
General chemicals (b)		and the second		1000
Inorganic (including inorganic gases)		There will	and the second	and the second second
Blacks, mineral or carbon		7,489		10,942
Sulphur	10000	355	No boll-	533
Other				1,521
Organic (including organic gases)	200.00	A PART OF THE PART		
Isocyanates		676	alkar · ma	751
Saturated polyesters, polyethers etc (for polyurethanes)	1	743	i i podiegon	571
Other	. 1			2,207
Other (including mixtures of inorganic and organic chemicals)		0.000		1 070
Plasticisers	residence and	2,389	The section of	1,970
Accelerators		1,514		2,138
Antioxidants		2,189		2,656
Other (c)		4,675	de la companya della companya della companya de la companya della	1,503
Fillers (clay, lime, wood flour etc)	••	1,811	1000	1,798
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)	do Contactor	men tentil	an't school	
Polyvinyl chloride (including copolymers)	The sout	mus tes sal	Th.cwt.	
Polymers and copolymers including the net resin contents of latices, solutions and dispersions, plasticised moulding and extrusion compounds	Th.cwt.	2,020 {	214	1,795 252
Plasticised and unplasticised sheet, film, rod, tube, profile shapes and foam (d)	38.0	898 165	54.0	1,272 246
Phenolics and allied products: resins (the net resin content), solutions, emulsions, dispersions, moulding and extrusion compounds (e)	46.3	538 120	94.5	843

Continued on next page.

TABLE 10 (continued)

	1	963	19	68
Rest Towns	Quantity	Cost	Quantity	Cost
	Th.cwt.	£'000	Th.cwt.	£'000
aterials for use in production (continued)	. 791.0	1.00 0366	era of mar	
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics) (continued)	1.500	- K 000	1360	
Coumarone-indene resins (including the net resin content of solutions, emulsions and dispersions)	27.5	123 {	28.9	172 61
Acrylonitrile-butadiene-styrene resins (including the net resin content of solutions, emulsions and dispersions)	7.0	136		285
Finished parts and components of metal			a melifiera a	Manual Farmers
Wire (ferrous and non-ferrous)	al redame	3,047	reddir.goz	7,39
Other	to home	6,115	a Edy og-a F	7,386
Textiles	Th.lb.	6,800	Th.lb.	America Car
Cotton yarn (including cotton waste varn)	4,057	939 {	3,844	980
Man-made fibre (nylon, rayon, etc) continuous filament yarn	4,007	939	mirror bea	142
Synthetic (nylon, etc) yarn	1,926	914	4,081	1,694
Other (rayon, etc) yarn	12,349(f)	3,057	17,953	4,057
Man-made fibre (nylon, rayon, etc) spun yarn (in- cluding waste yarn) and spun yarn doubled with con- tinuous filament yarn (g)	PR. 1UM		ia gothufu athutusa a	
Synthetic (nylon, etc) yarn	202	83 19	890	293
Other (rayon, etc) yarn	331(f)	83	707	164
Woven piece goods (other than narrow fabrics) wholly or mainly of	Th.sq.yds.		Th.sq.yds.	
Cotton (including cloth in the grey)	64,937	9,624 1,120	36,581	8,405
Jute (including hessian)	14,414	818 102	26,030	1,684
Synthetic fibres (nylon, etc)	22,090	5,338 1,499	47,321	9,459
Other man-made fibres (rayon, etc)	48,990	7,482 2,108	59,076	10,178
All other fabrics (including narrow fabrics of all materials, knitted fabrics, etc) other than rubber	on James of	to setur	ja seibulat	
coated fabrics Cloth and felts proofed with rubber (including		1,590	11081	2,296
spread fabrics)		1,321		2,484
200.0 Land 100.00	Th.gal.		Th.gal.	
100,1	330	91	639	189
Lubricating oils and greases	7.3	37	Th.cwt.	
and the		63	} 16.7	58
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement	September	spibul sai	ebisotile r	
Tyres and other spare parts for firms' own road goods vehicles			odes has o	276
Other		3,978	a tau Kasa u	376 5 546
All other materials for use in production)	12 000	ada atitos	5,546
and other materials for use in production	11,00000	13,869	eilla the bi	16,304

TABLE 10 (continued)

tempston office	196	1963 1968		8
	Quantity	Cost	Quantity	Cost
Packaging materials		£,000		£'000
Paper and board	3 feveralisates a	D Replacement 1	V. Lip. 2 600	
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	h	2,041 {		1,945
Fibreboard packing cases		4		333
Bags and multiwall paper sacks (h)		59	10.40W ROW	120
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)		501		287
Other packaging materials of paper and paperboard (including moulded pulp units and labels, but excluding paper and board for converting into packaging materials) (i)	}	501 {		630
Transparent regenerated cellulose film in sheets or rolls (j)	autotil.	58		97
Plastics (k)			=0.30f(%).1	
Film (up to 0.01 inches thick)		(1000	410
Of polyethylene	s for rely	re-E town Letter are	THE DE CAN	412
Of other plastics materials	}	330 1	020-00	59
Sheets and sheeting (thicker than 0.01 inches)	J	L	• • •	21
Moulded and fabricated containers (with a capacity exceeding 1 gallon) including closures and inserts	NELSON DESCRIPTION OF THE PERSON NAMED IN	(a)		23
All other packaging materials	90 0 000	710		600
Fuel and electricity (1)	Th.tons	9.767	Th.tons	
Coal	605	2,767	} 464	2,392
Coke (including screenings) and manufactured fuel	10.8	72 34	5.6	40 7
	Th.gal.		Th.gal.	
Derv fuel and motor spirit for use in road vehicles	1,948	373 75	4,251	980
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	36,005	1,333 {	45,056	1,944 ₇₄₃ (m
	Th.therms	040	Th.therms	198
Gas at dancer a test cont	3,461	240 46	2,202 Th.kWh	154
	Th.kWh	5,773 {	839,328	5,429
Electricity	1,095,318			3,029
Total cost of materials and fuel		168,756		204,884
Goods purchased for merchanting		19,568	controller -	42,397
Canteen purchases		825		1,135
Total cost of purchases		189,149	a milesoni	248,417

- (a) Not recorded separately for 1963.
- (b) For 1963, described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc)'.
- (c) For 1963, including other inorganic and organic chemicals.
- (d) For 1963, foil was specifically included.
- (e) For 1963, described as 'Phenolics and cresylics; resins (straight and modified), solutions, emulsions and dispersions'.
- (f) Revised figures.
- (g) For 1963, waste yarn was not specifically included.
- (h) For 1963, bags were not included.
- (i) For 1963, paper and board for conversion were not specifically excluded.
- (j) For 1963, bags were included.
- (k) For 1963, described as 'Plastic sheet, film, foams, etc, (including bags)'.
- (1) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 7,078 Th.kWh in 1963. Owing to the risk of disclosure of information relating to individual firms, separate figures for 1968 cannot be given.
- (m) For 1968, may include a small amount of fuels not covered by specific headings.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

		Unit	1963	1968
Average number mainly	employed on transport	No.	1,408	1,217
Transport costs		willis to sail	11 11 11 11 11 11 11 11 11 11 11 11 11	10.2 1910 201
Wages and salaries		£'000	1,064	1,318
Derv fuel and motor a	spirit	n n	447	980
Tyres and other spare vehicles	e parts for road goods		ra partela	376
	by road	") (6,812
Payments to other organisations for transport	by rail and other means excluding	fixed tops	4,900 <	in sinist
Tor transport	postal services	-strongs and		1,238
Costs of operating ro	oad goods vehicles		al 18777 es	. 1.5 - 137
Insurance		"	73	72
Vehicle licences		n	76	143
Depreciation		11	438	443
Payments to other o and maintenance	rganisations for repairs	u u	216	269
Total		(ealse	7,213(a)	11,651

⁽a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	Amounts	s payable
and see	1963	1968
Repairs and maintenance to	£'000	£,000
Buildings	621	760
Road goods vehicles	216	269
Plant, machinery and other capital equipment	2,330	3,825
Insurance, licensing and depreciation of road goods vehicles (b)	586	658
lates, excluding water rates	1,888	3,083
lire of plant and machinery	289	645
Postage, telephone, telegrams, cables and telex (c)	1,149	1,882
Total	7,078	11,122

⁽a) No deduction is made for these payments to arrive at the figures of net output given in this report.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	3.0	1.4
May	0.9	0.1
June	0.9	0.1
July	0.9	0.5
August	1.7	0.7
September	9.9	9.8
October	3.0	4.9
November	0.4	0.1
December	57.3	71.4
1969		
January	1.7	0.5
February	0.9	0.5
March	18.5	9.7
April (b)	0.9	0.3
	100	100

⁽a) From 6 April.

⁽b) For details see Table 11.

⁽c) Excluding telex for 1963.

⁽b) To 5 April.