

33 Soap and detergents

This Report on the Soap and Detergents Industry relates to establishments engaged wholly or mainly in manufacturing soaps, soap powder, soap flakes, shaving soap or cream, soapless detergents, scouring preparations, primary products of sperm oil (including higher fatty alcohols), stearine, glycerine, candles, night-lights and tapers; fat splitting and distillation.

This industry corresponds to minimum list heading 275 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 Soap, Detergents, Candles and Glycerine Industry (Part 33) in the Reports on the last detailed Census of Production for 1963 except that higher fatty alcohols were shown in the Report on General Chemicals (Part 27).

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.

There were no larger establishments in this industry in Northern Ireland in 1963 and 1968.

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).

LIST OF TABLES

Table No.	Title	Page
SECTION I - Estimates for all establishments in the industry		
1	Industry summary, 1963 and 1968	33/3
2	Analysis by size of establishment within the industry, 1968	33/4
3	Percentage analysis of employees, by age and sex, 1969	33/5
SECTION II - Analysis of returns received		
4	Analysis of larger establishments, 1963 and 1968	33/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	33/7
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	33/9
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	33/10
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	DOES NOT APPLY
10	Purchases by larger establishments in the industry, 1963 and 1968	33/11
11	Transport costs and employment of larger establishments, 1963 and 1968	33/14
12	Payments for certain services, etc by larger establishments, 1963 and 1968	33/14
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	33/15

Footnotes continued from page 33/3.

(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 less disposals.

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

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	163	174	
Number of establishments	"	182	191	
Gross output	£'000	143,265	168,456	
Net output	"	56,481	60,478	
Net output per head	£	2,572	3,773	
Sales and work done	{ goods produced and work done (c) merchanted goods and canteen takings	£'000	139,768	162,889
	"	3,818	4,332	
Customs and Excise rebate and drawback on alcohol	"	151	111	
Purchases	{ materials for use in production and packaging and fuel goods for merchandising and canteen purchases	"	80,427	102,500
	"	3,159	3,656	
Payments to other organisations	{ for work done on materials given out for transport by road by rail and other means excluding postal services	"	444	1,620
	"	2,939	2,864	
	"		177	
Stocks and work in progress				
Total stocks and work in progress	{ change during year at end of year	"	- 287	+ 3,964
	"	15,885	18,167	
Goods on hand for sale	{ change during year at end of year	"	- 504	+ 992
	"	5,246	5,355	
Work in progress	{ change during year at end of year	"	+ 183	+ 243
	"	1,840	2,103	
Materials, stores and fuel	{ change during year at end of year	"	+ 34	+ 2,729
	"	8,798	10,710	
Number employed on average during the year	{ total, including working proprietors operatives other employees (d)	Th.	22.0	16.0
	"	13.8	9.2	
	"	8.0	6.7	
Wages and salaries	{ of operatives of other employees (d)	£'000	9,949	8,775
	"	8,305	9,476	
Capital expenditure (e)				
Total	"	4,065	4,979	
New building work	"	1,152	644	
Land and existing buildings (f)	"	- 210	+ 43	
Plant and machinery (f)	"	2,732	3,887	
Vehicles (f)	"	391	405	

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 10 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 3 per cent. For 1963 the comparable figures were 6 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.

	1963	1968
Number of establishments	125	139
Average number employed:		
Working proprietors	145	137
Other persons employed	1,079	1,122

Footnotes continued on page 33/2.

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
1-5	47	46	146	..	..	..
6-10	38	37	297	..	..	..
11-24	43	43	739	..	..	..
25-49	15	15	572	3,195	1,378	2,410
50-99	7	7	451	2,740	1,018	2,256
100-199	7	7	972	9,150	3,092	3,181
200-299	7	7	1,728	9,048	3,193	1,848
300-399	3	3	1,054	12,977	2,352	2,232
400-999	3	3	2,480	24,129	9,267	3,737
1,000 and over	4	4	7,101	89,823	33,851	4,767
Unsatisfactory returns	17	16	488	..	..	..
Total	191	174	16,028	168,456(c)	60,478(c)	3,773(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	330	229	232	367	702	1,602
50-99	265	183	168	237	633	1,293
100-199	596	375	399	489	669	1,303
200-299	1,228	500	881	695	717	1,391
300-399	854	200	692	227	810	1,136
400-999	1,468	1,012	1,487	1,444	1,013	1,426
1,000 and over	3,565	3,536	4,078	5,102	1,144	1,443
Unsatisfactory returns	..	..	..	..	..	..
Total	9,191(c)	6,682(c)	8,775(c)	9,476(c)	955(c)	1,418(c)

(a) Including working proprietors.

(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.

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	2	3
18 and over	63	34	97
All ages	64	36	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) For 1968 2 establishments employing fewer than 25 persons were included in returns for larger establishments. None were included for 1963.
- (b) 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).
- (c) Direct sales of goods (excluding canteen takings) made to and work done for, the general public by larger establishments are included. These amounted to £168,000 in 1968. Similar information is not available for 1963.
- (d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.
- (e) Administrative, technical and clerical employees.
- (f) Excluding expenditure for establishments not yet in production.
- (g) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968

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

	Unit	1963	1968	
Number of enterprises	No.	42	37	
Number of establishments	"	55	48	
Gross output	£'000	134,178	151,398	
Net output	"	52,899	54,354	
Net output per head	£	2,572	3,773	
Sales and work done	{ goods produced and work done (b) (c) merchanted goods and canteen takings	£'000	130,902	146,395
Index of specialisation (d)	"	3,576	3,893	
Customs and Excise rebate and drawback on alcohol	Per cent.	80	89	
Purchases	£'000	141	100	
Payments to other organisations	{ materials for use in production and packaging, and fuel	"	75,325	92,121
	{ goods for merchandising and canteen purchases	"	2,958	3,286
Stocks and work in progress	{ for work done on materials given out	"	416	1,456
	{ for transport	"	2,753	2,574
	{ by road	"		
	{ by rail and other means excluding postal services	"		159
Goods on hand for sale	{ change during year	"	- 472	+ 891
	{ at end of year	"	4,913	4,812
Work in progress	{ change during year	"	+ 171	+ 219
	{ at end of year	"	1,723	1,890
Materials, stores and fuel	{ change during year	"	+ 32	+ 2,453
	{ at end of year	"	8,240	9,625
Number employed on average during the year	{ total, including working proprietors	No.	20,568	14,405
	{ operatives	"	13,046	8,331
	{ other employees (e)	"	7,507	6,057
Wages and salaries	{ of operatives	£'000	9,374	7,954
	{ of other employees (e)	"	7,828	8,590
Wages and salaries per head	{ operatives	£	719	955
	{ other employees (e)	"	1,043	1,418
Capital expenditure (f)				
New building work		£'000	1,079	579
Land and existing buildings	{ acquisitions	"	61	39 (g)
	{ disposals	"	258	
Plant and machinery	{ acquisitions	"	2,660	3,631
	{ disposals	"	101	137
Vehicles	{ acquisitions	"	628	782
	{ disposals	"	262	419

For notes to this table - see page 33/5.

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

	1963		1968			
	Quantity	Value	Quantity	Value	Enterprises	Entries
Glycerine (on the basis of 80 per cent. glycerol)	Th.tons	£'000	Th.tons	£'000	Number	Number
Crude	9.2	1,017	..	2,507	12	15
Refined ex. own crude	19.2	2,489	15.0	3,081	7	9
Refined ex. brought in crude (including imported)	18.9	2,343	17.6	3,403	5	6
Acyclic (fatty) alcohols C12 and higher	4.5	946	11.7	2,187	*	*
Fatty acids						
Oleine (oleic acid)	13.0	1,189	15.5	1,709	*	*
Stearine (stearic acid)	17.9	1,792	28.0	2,785	7	7
Other fatty acids (excluding acid oils)	23.9	2,732	82.8	10,697	9	10
Soap base and soap sold to other soap or toilet preparations manufacturers for further processing	22.8	1,755	21.8	1,745	6	7
Soap (excluding scouring preparations)						
Hard, in bars or tablets	66.0	5,585	36.9	3,586	11	15
Toilet soap in tablet form (78/80 per cent. fatty acids)	82.5	17,801	85.5	20,500	32	40
Shaving soap, solid, cream or powder	{ 1.8	{ 1,411	{ 1.3	{ 1,654	{ 24	{ 28
Brushless shaving cream	{ ..	{ 283	{ 0.8	{ 778	{ 22	{ 23
			{ ..	{ 168		
Soap shampoos, solid, powder or liquid	..	913	8.0	795	13	13
Powder (more than 20 per cent. fatty acids)	181	15,873	152	17,118	11	14
Flakes and chips	24.2	2,502	15.3	1,721	11	13
Other soaps (including liquid soap and soft soap)	{ 13.0	{ 1,112	{ 5.4	{ 387	{ 19	{ 24
	{ ..	{ 171	{ ..	{ 1,417		
Total soap (excluding scouring preparations)	{ 369	{ 44,283	{ 305	{ 46,538	{ ..	{ ..
	{ ..	{ 1,366	{ ..	{ 1,585		
Surface active materials (other than scouring preparations) including wetting and emulsifying agents, sulphonated or sulphated oils, alcohols and hydrocarbons (a)						
Compounded materials primarily for washing purposes (ie sold for use as finished detergents)						
Powder	213	28,390 (b)	258	35,198	26	30
Liquid paste or other forms	155	19,169	{ 167	{ 21,394	{ 46	{ 51
			{ ..	{ 4,673		
Scouring preparations containing soap or synthetic detergents (excluding steel wool)	101	8,911	{ 97.4	{ 8,323	{ 17	{ 20
			{ ..	{ 872		
Candles, night lights and tapers	6.4	1,364	4.5	1,103	5	5

Continued on next page.

TABLE 5 (continued)

	1963		1968			
	Quantity	Value	Quantity	Value	Enter-prises	Entries
		£'000		£'000	Number	Number
Other products		229		236	12	12
Waste products		54		226	11	14
Work done						
Glycerine refined on commission (on the basis of 80 per cent. glycerol)		212		398	*	*
Other work done					908	6	8
Total		118,241		149,569	..	..
Sales in other industries (see Table 6)		13,036		19,038	..	..
Principal products of this industry sold by establishments in the industry		105,206		130,531	37	45 (c)

(a) For 1963 described as 'Surface active materials (including sulphonated or sulphated alcohols and oils, quaternary ammonium compounds, etc, but excluding scouring preparations)'.

(b) Including some unclassified detergent for 1963.

(c) 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

	1963		1968			
	Quantity	Value	Quantity	Value	Entries	Principal industries in which produced (a)
	Th.tons	£'000	Th.tons	£'000	Number	
Glycerine, crude (on the basis of 80% glycerol) acyclic (fatty) alcohols C12 and higher, and fatty acids excluding oleine (b)	..	1,415	..	3,400	11	16,27,29,101
Soap, excluding scouring preparations						
Toilet soap in tablet form (78/80 per cent. fatty acids)	2.8	1,322	2.5	1,434	24	30,31,42
Shaving soap, solid, cream or powder	{ 0.8 ..	{ 487 253	{ 0.5 0.4	{ 904 641	{ 19 *	{ 30,31 30,31
Brushless shaving cream						
Soap shampoos, solid, powder or liquid	{ 4.5 ..	{ 269 962	{ 8.0 2.4	{ 794 272	{ * 13	{ 30,31 26,27,30,31
Other soaps, including soap powder, liquid soap and soft soap				489		
Surface active materials, (other than scouring preparations) including wetting and emulsifying agents, sulphonated or sulphated oil, alcohols and hydrocarbons						
Compounded materials primarily for washing purposes						
Liquid paste or other forms	74.1	6,122	{ 68.7 ..	{ 5,122 2,750	{ 29	{ (c)
Powder			21.0	2,679	10	27,30,35,98
Scouring preparations containing soap or synthetic detergents (excluding steel wool)	{ 21.6	{ 2,205	{ ..	{ 553	{ 8	{ 26,27,32,40
Total		13,036		19,038	..	

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

(b) Oleine was included for 1963.

(c) Production is widely distributed.

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

	1963		1968	
	Quantity	Value	Quantity	Value
		£'000		£'000
Vegetable and animal oils and fats	..	(a)	..	1,375
General chemicals				
Surface active materials (excluding compounded materials primarily for washing purposes)			..	1,433
Other chemicals			..	1,278
Disinfectants	..	10,359		
Based on Quaternary ammonium compounds			..	170
			Th.tons	
Based on Hypochlorite compounds			3.1	139
Pharmaceutical preparations	..	(a)	..	340
Toilet preparations				
Colognes, toilet waters and perfumes non-alcoholic	..	278(b)	..	125
	Th.lb.			
Talcum and toilet powders	6,657	1,119	..	454
			Th.lb.	
Soapless shampoos			2,544	567
Hand creams (excluding ointments)			..	60
Face and skin lotions			..	171
Bath preparations	..	5,649	3,669	459
Other toilet preparations (including dental preparations)			..	5,608
Other goods	..	6,344	..	3,276
Services rendered to other organisations (c)		1,947		410
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	..	3,274	..	3,785
Canteen takings		302		109
Total		29,272		19,757

(a) Owing to risk of disclosure of information relating to individual firms, separate particulars cannot be given and are included in 'Other goods'.

(b) Included some spirit perfumes in 1963.

(c) Amounts charged for hiring out of 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

	1963		1968	
	Quantity	Cost	Quantity	Cost
		£'000		£'000
Materials for use in production				
Petroleum waxes (including paraffin and montan waxes)	..	338	..	327
Animal (except marine animal) oils, fats and greases				
Tallow	..	8,487	..	8,021
Other	..	1,452	..	1,601
Oleine (oleic acid) and stearine (stearic acid) and other fatty acids (excluding sulphonated fatty acids and ester salts)	..	1,747	..	3,133
Fish and marine animal oils (including sperm oil)	..	2,433	..	1,825
Mixtures of fats, greases and oils (including soap stock, but excluding essential oils) and residues of edible oil refining not elsewhere specified	..	273	..	63
Acid oils	..	1,320	..	1,167
Fatty alcohols	..	98	..	958
Crude vegetable and seed oils	..	5,818	..	10,619
Refined vegetable and seed oils				
Coconut oil	..	139	..	572
Palm and palm kernel oils	..	543	..	47
Other	..	335	..	734
Aromatic raw materials				
Essential oils (natural, other than turpentine)	..	811	..	925
Compound oils (perfumery bases) and floral concretes and absolutes	..	257	..	267
Perfumery chemicals, synthetic	..	525	..	762
Perfumes and toilet waters	..	1,499	..	1,836
Mineral oils (other than for use as fuel)	..	45	..	192
Dyestuffs and pigments		(a)	..	1,793
Precipitated chalk, talc, magnesium carbonate and other powder bases	..	122	..	135
General chemicals (b)				
Inorganic (including inorganic gases)				
Acids, including sulphuric and phosphoric acid			..	511
Phosphorus compounds (including ammonium, calcium and sodium phosphates)	..	4,967	..	6,846
Ammonium compounds not elsewhere specified			..	23
Sodium compounds				
Carbonate (including soda crystals and ash)	..	1,633(c)	..	592
Hydroxide (caustic soda)			..	1,051
Other sodium compounds (excluding phosphates)	..	4,189	..	1,461
Other inorganic chemicals not elsewhere specified	..	1,384	..	650
Organic (including organic gases)				
Acids, including acetic, citric and formic acid	..	96	..	230
Detergent alkylates			..	4,144
Other organic chemicals not elsewhere specified	..	5,642	..	3,495

Continued on next page

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
General chemicals (b) (continued)				
Other (eg mixtures of inorganic and organic chemicals)				
Catalysts prepared for industrial processes	..	98	..	163
Surface-active materials (other than washing and scouring preparations) including wetting and emulsifying agents, sulphonated or sulphated oils, alcohols and hydrocarbons (d)	..	2,054	..	2,926
Bleaching materials (including sodium percarbonate)	..	(a)	..	4,716
Other	..	(a)	..	563
Glycerine	Th.tons		Th.tons	
Crude (on the basis of 80 per cent. glycerol)	24.4	2,388	27.4	4,086
Refined (on the basis of 80 per cent. glycerol)			{ 0.3	53
Washing and scouring preparations	..	(a)	..	60
Soap base	..	976	..	1,367
Abrasives, natural and artificial	..	325	..	315
Lubricating oils and greases	Th.gal.		Th.gal.	
	13.2	5	14.5	6
			..	12	Th.cwt.
			1.6	4
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	926	..	17
Other	..		..	341
All other materials for use in production	..	4,560	..	1,539
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	..	8,148	..	8,309
Fibreboard packing cases	..		..	3,016
Bags and multiwall paper sacks (e)	..	161	..	209
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)	..		..	901
Paper and board for converting into packaging materials	..	2,188	..	57
Other packaging materials of paper and paperboard (including moulded pulp units and labels)	..		..	417
Metal	Thousands			
Barrels, kegs and drums	569	329	..	486
Aluminium collapsible tubes, aluminium foil, and any laminates incorporating aluminium foil and aluminium foil labels and closures	..	1,275	..	947
Other packaging materials of metal including crown corks, wire, foil and any laminates incorporating foil (other than aluminium foil), foil labels and foil closures, tensional steel strappings, etc, but excluding cans and boxes	..	525	..	35

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)	Thousands	£'000	Thousands	£'000
Glass containers	98,902	1,120	34,882	308
Transparent regenerated cellulose film				
In sheets or rolls	..	(a)	..	85
Bags	..	(a)	..	40
Plastic moulded and fabricated containers including closures and inserts				
Large containers (with a capacity exceeding 1 gallon)	..	3,104	..	16
Bottles and bottle caps			..	3,698
Tubes (rigid and collapsible)			..	18
Other, excluding re-usable crates			..	83
All other packaging materials	..	737	..	1,045
Fuel and electricity (f)	Th.tons		Th.tons	
Coal	145	793	84.1	459
Coke (including screenings) and manufactured fuel	0.5	5	0.2	3
Derv fuel and motor spirit for use in road vehicles	Th.gal.		Th.gal.	
	1,021	213	968	244
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	12,571	470	4,433	200
			..	126
Gas	Th.therms		Th.therms	
	1,071	71	359	28
			..	16
Electricity	Th.kWh		Th.kWh	
	119,678	687	119,366	770
All other fuels		(a)	..	465
Total cost of materials and fuel		75,325		92,121
Goods purchased for merchanting		2,686		3,175
Canteen purchases		273		111
Total cost of purchases		78,284		95,407

(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) Including percarbonate for 1963.

(d) For 1963 described as 'Surface-active material (including sulphonated or sulphated alcohols and oils, quaternary ammonium compounds etc) wetting, emulsifying agents etc'.

(e) Multiwall paper sacks only for 1963.

(f) The total quantity of electricity generated in establishments employing 25 or more persons in this industry in 1963 was 1,542 Th.kWh. Owing to the risk of disclosure of information relating to individual firms the quantity for 1968 cannot be given.

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.	598	513
Transport costs			
Wages and salaries	£'000	582	681
Derv fuel and motor spirit	"	213	244
Tyres and other spare parts for road goods vehicles	"	..	17
Payments to other organisations for transport	by road	2,753	2,574
			by rail and other means excluding postal services	159
Costs of operating road goods vehicles			
Insurance	"	24	18
Vehicle licences	"	24	20
Depreciation	"	98	223
Payments to other organisations for repairs and maintenance	"	43	136
Total	"	3,737(a)	4,073

(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 payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	150	204
Road goods vehicles	43	136
Plant, machinery and other capital equipment	329	1,285
Insurance, licensing and depreciation of road goods vehicles (b)	147	260
Rates, excluding water rates	454	516
Hire of plant and machinery	104	180
Postage, telephone, telegrams, cables and telex (c)	361	374
Total	1,588	2,956

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

(b) For details see Table 11.

(c) Excluding telex for 1963.

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)	0.0	0.0
May	4.4	0.5
June	17.8	30.5
July	0.0	0.0
August	0.0	0.0
September	0.0	0.0
October	4.4	0.7
November	0.0	0.0
December	55.6	51.6
1969		
January	2.2	2.1
February	0.0	0.0
March	15.6	14.6
April (b)	0.0	0.0
	100	100

(a) From 6 April.

(b) To 5 April.

TABLE 1. Summary of the results of the analysis of variance for the different factors. The values in parentheses are the degrees of freedom for each factor.

Source of variation	D.F.	Mean square	F	P
Replication	1	1.2	0.1	0.75
Treatment	3	15.8	1.8	0.15
Block	1	0.5	0.05	0.83
Error	15	8.8		
Total	20			

TABLE 2. The results of the analysis of variance for the different factors. The values in parentheses are the degrees of freedom for each factor.

Source of variation	D.F.	Mean square	F	P
Replication	1	1.2	0.1	0.75
Treatment	3	15.8	1.8	0.15
Block	1	0.5	0.05	0.83
Error	15	8.8		
Total	20			

TABLE 3. The results of the analysis of variance for the different factors. The values in parentheses are the degrees of freedom for each factor.