30 Pharmaceutical chemicals and preparations

This Report on the Pharmaceutical Chemicals and Preparations Industry relates to establishments wholly or mainly engaged in manufacturing products for therapeutic and prophylactic use (including veterinary) and chemicals for compounding into such products, including the same chemicals when used subsequently as additives to foods and drinks.

This industry corresponds to minimum list heading 272 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 Pharmaceutical Preparations Industry (Part 28) (except for surgical and medical dressings etc not wholly of cotton and surgical sutures) in the Reports on the last detailed Census of Production for 1963 but also includes pharmaceutical chemicals which were part of the General Chemicals Industry (Part 27) and medicines, spices and condiments specifically for animals, poultry etc included in the Animal and Poultry Foods Industry (Part 15). Surgical and medical dressings etc not wholly of cotton and surgical sutures form part of the Report on Surgical Bandages, etc (Part 42) for 1968.

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.

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.

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

-			All estab	olishments
	The second record from	Unit	1963	1968
umber of enterprises	and test dupling motors specime to you	No.	306	283
umber of establishments		"	359	336
ross output		£,000	237,221	347,243
et output		11	136,674	195,603
et output per head		£	2,263	3,497
ales and work done	∫ goods produced and work done (c)	£,000	215,233	320,470
	merchanted goods and canteen takings	п	19,694	21,586
et amounts received in ren n alcohol, etc	espect of Customs and Excise rebate and drawback	"	3,398	5,125
nrchases	materials for use in production and packaging and fuel	п	87,737	136,359
	goods for merchanting and canteen purchases	11	14,147	17,264
	for work done on materials given out for transport	"	1,051	2,137
ayments to other ganisations	by road	11		2,176
8	by rail and other means excluding postal services		2,682	527
ocks and work in progre				
Total stocks and work	change during year	"	+ 3,966	+ 6,885
in progress	at end of year	"	51,548	73,480
Goods on hand for sale	f change during year	n	- 97	+ 1,700
	at end of year	п	17,763	24,789
Work in progress	f change during year	11	+ 2,390	+ 3,486
more in progress	at end of year	n	15,460	23,591
Materials, stores and fo	change during year	11	+ 1,673	+ 1,699
materials, stores and it	at end of year	п	18,326	25,101
	total, including working proprietors	Th.	60.4	55.9
mber employed on average	operatives	"	33.0	29.9
Jour	other employees (d)	11	27.2	25.9
	of operatives	£,000	17,798	24,421
ges and salaries	of other employees (d)	п	26,524	34,533
pital expenditure (e)	ERT 1 888 198 17 17 18 1		Park To The Control	
Total		п	9,210	16,889
New building work		н	3,602	5,185
Land and existing build	ings (f)	"	- 225	+ 89
Plant and machinery (f)	108.1 190 800 11 11 11 11 11	u u	5,122	10,910
Vehicles (f)		"	710	704

⁽a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 5 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for 2 per cent. For 1963 the comparable figures were 3 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 Average number employed:	182	178
Working proprietors	214	165
Other persons employed	1,434	1,469

Footnotes continued on page 30/2.

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	73	73	206			
6-10	31	31	235		• •	
11-24	58	57	1,098	September 1		
25-49	23	23	823	5,408	2,606	3, 166
50-99	32	26	2,182	10,114	5,717	2,620
100-199	31	30	4,827	24,840	13,136	2,721
200-299	15	15	3,702	26,156	11,297	3,052
300-399	9	8	3,124	20,548	12,417	3,975
400-499	6	6	2,676	16,267	9,086	3,395
500-749	11	10	6,785	49,018	25, 187	3,712
750-1,499	16	14	16,853	107,431	64,100	3,803
1,500 and over	5	5	12,246	70,437	42,488	3,470
Unsatisfactory returns	26	25	1,180		0.000	
Total	336	283	55,937	347,243(c)	195,603(c)	3,497(c)

(ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the	Emple	oyees	Wages and salaries		Wages and salaries per head	
year by the establishment (a)	Oper- atives	Others (d)	Oper- atives	Others (d)	Oper- atives	Others (d)
3,2	Number	Number	£'000	£'000	£	£
1-5					DOMEST LANG.	
6-10					viderous le	
11-24					2	
25-49	513	296	352	351	686	1,185
50-99	1,398	774	910	921	651	1,190
100-199	2,889	1,934	1,941	2,621	672	1,355
200-299	2,288	1,414	1,758	1,934	768	1,368
300-399	1,444	1,680	1,043	2,233	722	1,329
400-499	1,634	1,042	1,128	1,356	691	1,301
500-749	3,592	3,193	2,877	4,366	801	1,367
750-1,499	8,743	8,110	8,024	10,758	918	1,327
1,500 and over	5,996	6,250	5,289	8,395	882	1,343
isatisfactory returns						0.000
Total	29,855(c)	25,887(c)	24,421(c)	34,533(c)	818(c)	1,334(c

⁽a) Including working proprietors.

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

All establishments: United Kingdom

Ages	Males	Fem ales	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	3	4
18 and over	54	42	96
All ages	55	45	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 2 establishments in 1968 and 9 in 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 £283,000 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) The total Customs and Excise duty paid was £1,575,000 for 1963 and £1,890,000 for 1968.
- (f) Administrative, technical and clerical employees.
- (g) Excluding expenditure for establishments not yet in production.

⁽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

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

⁽d) Administrative, technical and clerical employees.

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.	129	103
Number of establishments		"	182	150
Gross output		£,000	229,617	330,644
Net output		п	132,294	186,253
Net output per head		£	2,263	3,497
Sales and work done	goods produced and work done (b)(c)	£'000	208,335	305,151
bares and work done	merchanted goods and canteen takings	"	19,063	20,554
Index of specialisation (d)		Per cent.	86	88
Net amounts received in resp on alcohol, etc (e)	ect of Customs and Excise rebate and drawback	£,000	3,289	4,880
Purchases	materials for use in production and packaging, and fuel	£,000	84,925	129,841
	goods for merchanting and canteen purchases	11	13,694	16,439
	for work done on materials given out	n	1,017	2,035
	for transport			
Payments to other organisations	by road	u]	2,072
	by rail and other means excluding postal services	10		502
Stocks and work in progress				
Goods on hand for sale	change during year	п	- 94	+ 1,619
	l at end of year	- 11	17,193	23,604
Work in progress	change during year	"	+ 2,313	+ 3,319
mork in progress	at end of year	п	14,964	22,463
Materials, stores	change during year	п	+ 1,619	+ 1,618
and fuel	at end of year	"	17,738	23,901
	total, including working proprietors	No.	58,466	53,263
Number employed on average during the year	operatives	"	32,015	28,525
	other employees (f)	"	26,425	24,708
Thomps waters to be a first process.	f of operatives	£,000	17,302	23,345
Wages and salaries	of other employees (f)	n	25,770	32,962
Wages and salaries	[operatives	£	540	818
per head	other employees (f)	"	975	1,334
Capital expenditure (g)			010	1,001
New building work		£,000	3,487	4,938
Land and existing	acquisitions	п	90	243
buildings	disposals	п	307	158
Plant and machine	acquisitions	11	5,186	10,616
Plant and machinery	disposals	ıı .	228	227
	acquisitions	п	1,394	1,226
Vehicles	disposals	11	707	555

For notes to this table - see page 30/5.

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

100°5 000°5	1963		1968	
	Value	Value	Enter- prises	Entries
	£'000	£,000	Number	Number
Pharmaceutical chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc but excluding products put up in measured doses	d d	Atlanta 1	ga weta Shi qetb swailaso	Carrena Lateral
Anti-infective agents				
Antibiotics (not in prepared form)			-1400.00	
Penicillin and synthetic penicillin derivatives		4,446	7	9
Streptomycin and dihydrostreptomycin		1,297	*	*
Other		7,155	12	18
Sulphonamides		1,924	8	10
Other anti-infective agents		5,568	12	14
Hormones (excluding insulin)		3,542	12	13
Insulin		381	*	*
Vitamins, provitamins, their salts and esters		5,324	10	13
Other pharmaceutical chemicals affecting metabolism and nutrition		427	11	11
Acetylsalicylic acid		1,295	*	*
Alkaloids, their salts and their derivatives		1.816		
Morphine, codeine, ethylmorphine and other derivatives of morphine		2,067	4	5
Other alkaloids		1,050	8	10
Barbiturates and other pharmaceutical chemicals acting on the nervous system		5,048	18	20
Pharmaceutical chemicals acting on the respiratory system		331	7	7
Antihistamines		537	11	11
Pharmaceutical chemicals acting on the alimentary system		422	8	12
Saccharin (including substances of a like nature or use, but excluding cyclamates)	7	1,554	7	7
Other pharmaceutical chemicals		18, 255	38	52
Total of pharmaceutical chemicals		60,624	1000000	F-0.03.00
Pharmaceutical preparations, mixed or compounded in all forms, and, unmixed put up in prepared forms or measured doses, for therapeutic or prophylactic (including veterinary) use		40		
Anti-infective agents				
Antibiotics	letelli ette le			
Penicillin and synthetic penicillin derivatives	Lange Hard	F 600	10	00
Tablets		5,332	16	20
Injectable		3,591	10	13
Syrups		3,747	12	14
Topical		87	11	13

TABLE 5 (continued)

	1963		1968	
	Value	Value	Enter- prises	Entries
	£,000	£'000	Number	Number
Pharmaceutical preparations, mixed or compounded in all forms, and unmixed put up in prepared forms or measured doses, for therapeutic or prophylactic (including veterinary) use (continued)				
Anti-infective agents (continued)				
Antibiotics (continued)				
Tetracyclines				
Tablets		6,353	17	18
Injectable		301	5	5
Syrups and topical		2,004	8	10
Feeding stuff additives		623	7	9
Other antibiotics				0.500
Tablets		2,218	19	22
Injectable		3,835	17	18
Topical		2,712	18	20
Other				
Sul phonamides		3,247	20	22
Topical		210	17	10
Oral		310	17	17
Vaccines (and sera)		1,561	27	28
Human	W. B. Charles		1,000	
Antibacterial	5 12 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	75.	*	*
Antiviral		754		•
		1,888	6	7
Veterinary	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2,992	5	7
Other anti-infective agents	and the second second		Contractor	
Antibacterials				
Feeding stuff additives		1,474	5	5
Other	*	1,667	12	12
Antipaludic		1,439	6	6
Anthelminthic		2,630	23	26
Other		4,747	20	21
Hormone preparations				
Corticosteroids	1 1 1 1 1 1 1 1 1 1 1 1 1		10 16:42	
Systemic		3,077	24	25
Topical		8,003	24	26
Oral contraceptives	E PROSTE DIVE	1,596	8	9
Other hormones (excluding insulin)		2,409	23	23
Preparations affecting metabolism and nutrition		2, 100	20	20
Vitamin preparations (excluding animal feed stuff additives containing vitamins)	189,822 {	6 000		
Iron preparations	(4)	6,926	44	49
Insulin		3,881	35	39
Other		1,312	*	*
		3,579	22	25

TABLE 5 (continued)

	1963	AN ASSESSMENT OF THE SAME	1968	
	Value	Value	Enter- prises	Entrie
August Stania - Maries - Maries	£,000	£'000	Number	Number
Charmaceutical preparations, mixed or compounded in all corms, and unmixed put up in prepared forms or measured loses, for therapeutic or prophylactic (including leterinary) use (continued)			a jura tavi pau szaz ragaruski	
Preparations affecting the nervous system				
Aspirin	100 mm - min -	6,460	31	35
Aspirin compounds	N Notes	6,864	35	38
Other analgesics	Calling and	7,120	53	60
Tranquillisers		11,587	27	28
Hypnotics			Control of the contro	
Barbiturate		1,831	26	28
Other		2,446	13	13
Anti-depressives	uncited by	3,780	22	24
Anaesthetics		4,433	14	17
Other		2,082	27	30
Preparations affecting the cardiovascular system, and diuretics		_,	Theren	00
Anti-hypertensives	ET 6987 50 1	8,414	21	21
Diuretics	1 THE ST. S. S. S. S. S.	2,104	20	22
Other		3,864	24	25
Antiemetics and antiallergics		3,103	21	21
Preparations affecting the alimentary system		0,100	21	21
Antacids		5,640	43	49
Salines	3 805 6000	898	18	18
Laxatives		3,964		
Anti-haemorrhoids			47	50
Other	1901 (2.00	1,632	25	27
Preparations affecting the respiratory system	A S Reduced	2,662	38	39
Cough medicines		0.000		
Bronchial and asthma remedies		6,328	62	67
Other	200 S (84)	4,207	43	47
Topical preparations, not elsewhere specified	a conti tudi.	2,856	35	38
Confectionery, medicated	EVILLY STEEL SA	5,999	55	66
Malt extract and malt mixtures (with cod liver oil or halibut liver oil, etc)		6,521	34	40
For medicinal use	and to do a		HERE AND I	
Other	and having a	144	11	11
Dietary supplements	SELECTION -	1,391	6	6
Patent and proprietary foods and food drinks (including infants' and invalids' food) medicinal	and because	2,199	17	19
Milk based	paring half	2,137		bonneten
Other	the sties	151 5 No. 151	7	7
Medicinal oils not included elsewhere	uposta sor.	1,184	8	9

Continued on next page.

30/11

TABLE 5 (continued)

PHARMACEUTICAL CHEMICALS AND PREPARATIONS

	1963		1968	
	Value	Value	Enter- prises	Entries
	£'000	£,000	Number	Number
Pharmaceutical preparations, mixed or compounded in all forms, and unmixed put up in prepared forms or measured doses, for therapeutic or prophylactic (including veterinary) use (continued)		The second of th	e en la Tenta de la Sentidada de la Sentidada de la Companya de la	
Mineral additives for foods and feeding stuffs (eg calcium, phosphates)		658	11	11
Pharmaceutical additives for foods and feeding stuffs (eg vitamins) whether or not compounded with mineral additives (eg calcium, phosphates), but excluding antibiotics and mixtures containing antibiotics and other antibacterials		2,935	18	21
Medicines, spices and condiments specifically for animals, poultry, etc, not elsewhere specified		1,645	26	29
Antiseptics		4,223	32	38
Other pharmaceutical preparations		15,023	66	77
Other products	2,694	2,423	23	25
Waste products	75	119	17	22
Work done	2,298	920	24	25
Total	194,889	285,412		
Sales in other industries (see Table 6)	15,035	17,529		
Principal products of this industry sold by establishments in the industry	179,854	267,883	103	123(b)

(a) Owing to the differences in the detail collected for 1963 and 1968 it is not possible a great degree of comparability at commodity level. The information for 1963 is mad follows:-	to obtain e up as
	Value £'000
PHARMACEUTICAL CHEMICALS (chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc. steroids, etc and vaccines, etc, in all forms but excluding other products put up in measured doses) Antibiotics:	
Penicillin, its salts and derivatives	
Streptomycin and dihydrostreptomycin (in terms of base)	2,355
Other antibiotics	606
	2,374
Steroid preparations (cortisone, hydrocortisone, etc), hormones and similar products having analogous physiological properties not elsewhere specified (all forms including sales in compounded forms or measured doses)	
Sulphonamides (other than tablets)	9,077
Acetylsalicylic acid (aspirin, other than aspirin tablets) and salicylates	1,630
Alkaloids, their salts and other derivatives	1,778
Morphine codeins other derivatives	
Morphine, codeine, ethylmorphine and other derivatives of morphine Other alkaloids	1,572
	749
Organo-inorganic compounds for medicinal uses, not elsewhere specified	387
Anaesthetics, general and local, not elsewhere specified (other than compressed gases)	3,350
and derivatives	603
Insulin (all forms and solutions, including sales in measured doses)	
	1,344
	786
Saccharin, including substances of a like nature or use (other than saccharin tablets)	
measured doses) measured doses) measured doses)	457
Vitamins, provitamins, etc their salts and esters	5,144
Other pharmaceutical chemicals, not elsewhere specified	2,703
Unclassified pharmaceutical chemicals	9,906
Total pharmaceutical chemicals	345
PARTIMICENTICAL CHEMICALS	45, 165

Footnotes to Table 5 (continued).	Value £'000
HARMACEUTICAL PREPARATIONS, mixed or compounded in all forms, and unmixed it up in prepared forms or measured doses, for therapeutic or prophylactic including veterinary) use	
Preparations put up for injection	
Penicillin	2,003
Other antibiotics	1,740
Other (excluding steroid preparations, etc organo-therapeutic extracts of glands, etc and vaccines, etc)	5,388
Tablets, pills, lozenges, capsules, etc and powders put up in prepared forms or doses (excluding health salts and salines, medicated confectionery and chemical and mineral additives for foods)	
Aspirin and aspirin compounds	12,994
Alkaloids (morphine, codeine, etc and derivatives)	1,679
Antibiotics	
Penicillin	5,423
Other	11,066
Barbiturates	1,981
Sulphonamides	1,578
Vitamins	3,761
Other	34,614
Ointments, lotions, liniments and liquid dressings of like use put up in prepared forms (excluding general purpose disinfectants and preparations for pest and plant control)	
Antiseptic preparations specifically for medicinal use (including gargles, mouth washes, etc)	3,323
Antibiotics	
Penicillin	205
Other	2,227
Other (including insect-repellent ointments and dressings, anti-sunburn lotion, etc)	4,556
Liquid and emulsion preparations, syrups and elixirs specifically for medicinal use put up in prepared forms or doses (excluding lotions, liniments, dressings etc)	15,875
Galenicals not put up in prepared forms or doses (including bulk sales for blending, compounding or bottling, etc)	3,044
Confectionery, medicated (including that containing therapeutic doses and the like)	4,813
Health salts and salines	1,166
Malt extract and malt mixtures for medicinal use (with cod liver oil or halibut liver oil, etc)	1,646
Medicated and tonic wines	348
Patent and proprietary foods and food drinks including infants' and invalids' food, medicinal	3,330
Medicinal oils not included elsewhere	512
Chemical and mineral additives and supplements for foods and feeding stuffs (including animal)	14601000
Vitamins, phosphates, calciums, etc	6,327
Antibiotics (including mixtures containing antibiotics)	1,488
Medicines, spices and condiments specifically for animals, poultry, etc not	artika lasan
elsewhere specified	4,595
Other pharmaceutical preparations	8,974
Total pharmaceutical chemicals and preparations	189,822
(b) The figure represents the total number of returns made by larger firms in this indus	stry which

The figure represents the total number of returns made by larger firms in this industry which is less than the total number of establishments in Table 4 on account of combined returns covering more than one establishment.

30/13

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	3
Address	Value	Value	Entries	Principal industries in which produced (a)
Pharmaceutical chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc but excluding products put up in prepared doses Pharmaceutical preparations, mixed or	£,000	£'000 5,308	Number	18, 28, 29, 35
compounded in all forms, and unmixed put up in prepared forms or measured doses, for therapeutic or prophylactic (including veterinary) use				1,636
Preparations affecting the nervous system		sprikent.	a in sa pro	rices, men amount
Aspirin and aspirin compounds		2,504	8	11,28,31,33
Other analgesics		70	*	31,42
Other (excluding hypnotics and anti-depressives)		449	*	35,42
Preparations affecting the alimentary system		Chart etms	s of o Jun 11:	gur-sabani gali
Antacids		348	5	11,31,33,42
Other Preparations affecting the respiratory system	15,035	962	10	11,29,31
Cough medicines	(b)	410		onic beaudisem
Other		419 556	8	18,31,33,108
Topical preparations, not elsewhere specified		1,012	15	31,33,42
Confectionery, medicated	For Figure 1991	2,174	24	11,38,40,42
Mineral additives for foods and feeding stuffs (eg calcium, phosphates)		2,114	24	11,13,31
Pharmaceutical additives for foods and feeding stuffs (eg vitamins) whether or not compounded with mineral additives (eg calcium, phosphates), but excluding antibiotics and mixtures containing	lara shase	220	5	7,8,15
antibiotics and other antibacterials Medicines, spices and condiments		. 27	*	15
specifically for animals, poultry, etc, not elsewhere specified	Will Hamile	748	9	00.05.40
Antiseptics		1,372		33,35,40
Other pharmaceutical preparations		1,358	7	31,35,42
Total	15,035	17,529	21	19,31,33,149

For notes to this table - see page 30/13.

Footnotes to Table 6.

- (a) The references given are to the list of industries at the front of this report,
- (b) Owing to the differences in the detail collected for 1963 and 1968 it is not possible to obtain a great degree of comparability at commodity level. The information for 1963 is made up as

follows:-	
	Value £'000
PHARMACEUTICAL CHEMICALS (chemicals for therapeutic or prophylactic (including veterinary) use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc, steroids, etc, and vaccines, etc in all forms but excluding other products	
put up in measured doses)	5,273
PHARMACEUTICAL PREPARATIONS mixed or compounded in all forms and unmixed put up in prepared forms or measured doses, for therapeutic or prophylactic (including veterinary) use.	
Tablets, pills, lozenges, capsules, etc and powders put up in prepared forms or doses (excluding health salts and salines, medicated confectionery and chemical and mineral additives for food)	3,016
Ointments, lotions, liniments, and liquid dressings of like use put up in prepared forms (excluding general purpose disinfectants and preparations for pest and plant control)	794
Malt extract and malt mixtures for medicinal use (with cod liver oil or halibut liver oil, etc) and patent and proprietory foods and food drinks including infants' and invalids' food, medicinal	801
Other pharmaceutical preparations	5,151
Total	15,035

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

Sugar confectionery Food products General chemicals (inorganic) General chemicals (organic) Miscellameous general chemicals Chemicals put up or prepared for laboratory use Other miscellameous chemicals Toilet preparations Hair preparations (excluding soaps and soap shampoos) Other than for hair waving Hair dressings, hair tonics and conditioners Specifically for men Other Hair settings, lotions and spirits Soapless shampoos Other hair preparations, including dyes, bleaching and toning preparations Preparations for hair waving Other toilet preparations Talcum and toilet powders (excluding face powder) Face creams (excluding ointments) Hand creams, jellies and tablets Face and skin lotions (including face packs, preshave and after shave lotions) Bath preparations Other, including make-ups Tothpaste Cleansing preparations including tooth powder oap and detergent Toilet soap in tablet form (78/80 per cent. fatty acid) Shaving soap, solid, cream or powder Fushless shaving cream Other soaps, including shampoos, liquid and soft soap (but excluding hater) says in figured and soft soap (but excluding hater) says in figurid and soft soap (but excluding hampoos, liquid and soft soap (but excluding hampoos, powder, flakes and chips)		1963	1968
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General chemicals (organic) Miscellaneous general chemicals Chemicals put up or prepared for laboratory use Other miscellaneous chemicals Toilet preparations Hair preparations (excluding soaps and soap shampoos) Other than for hair waving Hair dressings, hair tonics and conditioners Specifically for men Other Hair settings, lotions and spirits Soapless shampoos Other hair preparations Preparations for hair waving Other toilet preparations, including dyes, bleaching and toning preparations Preparations for hair waving Other toilet preparations and cosmetics (excluding soaps and dental preparations) Manicure preparations Talcum and toilet powders (excluding face powder) Face creams (excluding ointments) Hand creams, jellies and tablets Face and skin lotions (including face packs, preshave and after shave lotions) Beth preparations Deodorants, anti-perspirants, depilatories Other, including make-ups erfumes and toilet waters ental preparations Toothpaste Cleansing preparations including tooth powder Toilet soap in tablet form (78/80 per cent. fatty acid) Shaving soap, solid, cream or powder Brushless shaving cream Other soaps, including shampoos, liquid and soft soap (but excluding sharpoos, liquid sharpoot) Toompounded materials rejective for excessions Toompounded materials r] ",013	246
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Other soaps, including shampoos, liquid and soft soap (but excluding hard soap, powder, flakes and chips) Compounded materials primarily for marking			59
Compounded materials primarily for machine	Other soaps, including shampoos liquid	416	81
	Compounded materials primarily for washing purposes (ie finished detergents)		101

TABLE 7 (continued)

	1963	1968
	Value	Value
Supplementary (Control of the Control of the Contro	£,000	£'000
Pesticides and disinfectants		
Disinfectants	.5 Ca.3 . 83 m/c	1,998
Formulated pesticides	1 20000	
Sheep and cattle dips and dressings and seed dressings	-076378280	143
Insecticides	4,478	629
Fungicides	1,410	a faguragest)
Organic compounds	a la Jago delizació	534
Inorganic compounds	o ce i in tan i weed o	94
Rodenticides	J	32
Other preparations for pest and plant control	sexist Road Maa	3,090
Household deodorisers]	167
Surgical dressings	2,837	1,403
Other goods		2,457
Services rendered to other organisations (a)	1,082	1,314
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	18,253	19,653
Canteen takings	810	901
Total	47,544	57,823

⁽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

The grant of the same of the s	1	963	1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production		£'000		6,000
Precipitated chalk, talc, magnesium carbonate and other powder bases		(a)		£'000 482
Aromatic raw materials	Volum Applica			102
Essential oils (natural, other than turpentine)		21(b)		493
Compound oils (perfumery bases)		(a)		317
Floral concretes and absolutes	1	(a)		29
Perfumery chemicals, synthetic		(a)		
Natural waxes		(a)	••	408
Synthetic waxes (and mixed waxes)			••	174
Milk and milk powder	* 6	(a)	• •	96
Malt		259		198
Glucose, lactose and other sweetening agents (excluding saccharin and cyclamates)		208		431
Corn-steep liquor		2,014	WALE .	2,623
Vegetable and animal oils and fats		(a)	Tisted.	237
Glycerol (glycerine)		14(b)		1,374
Distilled		C		
Other	}	353	• •	436
Dyestuffs and pigments	J. Commission of the Commissio		••	164
General chemicals (excluding pharmaceutical chemicals) (c)	de data	63(b)	10)	155
Inorganic (including inorganic gases)				
Organic (including organic gases)		3,875		5,905
Ethyl alcohol				
Duty-free		252		1.40
Duty-paid		4,654		440
Heterocyclic compounds		4,034		6,596
Solvents		10.015		5,847
Other		12,017	INAT:	2,381
Other chemicals (eg mixtures of inorganic and organic chemicals)			••	9,401
Surface active materials (other than washing or scouring preparations) including wetting and emulsifying agents, sulphonated or sulphated oils, alcohols and hydrocarbons	3	100		
Other	}	19(b)		772
Pharmaceutical chemicals (chemicals for therapeutic or prophylactic, including veterinary use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc but excluding products put up in measured doses) (d)	J	13(3)		7,273
Anti-infective agents				
Antibiotics (not in prepared form)	of we speak	ENGL DE	ISAN TOTAL	
Penicillin				
Tetracyclines		0.005		2,744
Other	hara in 1853	3,087		1,619
and a second control of the second control o		U		1,885

ARLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
daterials for use in production (continued)		£,000	na Palaka ay i	£,000
Pharmaceutical chemicals (chemicals for therapeutic or prophylactic, including veterinary use, unmixed and uncompounded, including organo-therapeutic extracts of glands, etc but excluding products put up in measured doses) (d) (continued)			44.00	
Anti-infective agents (continued)			AND ALMS	000
Sulphonamides (not in prepared form)		714		968
Vaccines				263
Other anti-infective agents		De la constitución de la constit	10 250	1,742
Hormones (excluding insulin)	}	(e) {	The Book spirit	
Corticosteroids			a mais was	2,905
Other				678
Pharmaceutical chemicals affecting metabolism and nutrition (including insulin)		All representations of tensor representa-	ne redest	
Vitamins, provitamins, their salts and esters		1,484		2,355
Other pharmaceutical chemicals affecting metabolism and nutrition (including insulin)	m/23 N	(e)	adente, y	1,135
Pharmaceutical chemicals acting on the nervous system			alten as a	T 20
Acetylsalicylic acid		897(f)		780
Other pharmaceutical chemicals acting on the nervous system		(e)		6,144
Other pharmaceutical chemicals		1 000	304,15-59	2,806
Of vegetable origin		1,839	45.00	
Other		11,726	ar y weight was	13,500
Medicinal and mineral oils and paraffin (other than for use as fuel) (g)		863	mb1	412
III Kantysta of returns appropriate the first and second	Th.gal.	14	Th.gal. 29.4 Th.cwt.	11
Lubricating oils and greases	Th.cwt.	3	0.5	6
		14		11
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement		na n aten) Ma	a tau i o Empo	13.03
Tyres and other spare parts for firms, own road goods vehicles	1	1,469		102
Other		1,409		1,559
All other materials for use in production		16,217	1001000	12,550
Packaging materials		alarasia	r sacratations	100 to 100
Paper and board				a turn to
Boxes, cartons, drums and canisters (with or without	1		١	
metal ends) of paper and cardboard	}	4,279	{ ••	4,584
Fibreboard packing cases	J		l ··	1,129
Bags and multiwall paper sacks		(h)		133
Wrapping and packing paper (including paper coated with plastics and any laminates incorporating paper but not metal)		a side 3 km Lyn		558
Paper and board for converting into packaging materials	}	1,336		172
Other packaging materials of paper and paperboard (including moulded pulp units and labels)	The state of the s	A THE STATE OF THE STATE OF		1,441

Continued on next page.

TABLE 10 (continued)

			aristanti antist	St. Link
	19	963	15	968
	Quantity	Cost	Quantity	Cost
Packaging materials (continued)		£,000		£,000
Metal	NOT THE TAX OF THE PARTY.			100
Cans and boxes	M	2,051	with the same	2,274
	Thousands	Companie	Thousands	e less la
Barrels, kegs and drums	∫ 237	286	258	300
	Ų	99		53
Aluminium collapsible tubes, aluminium foil, and any laminates incorporating aluminium foil and aluminium				
foil labels and closures		1,349	•••	2,087
Other packaging materials of metal including crown corks, wire, foil and any laminates incorporating		railiber y	i bir i saya i sa	caroli 174
foil (other than aluminium foil), foil labels and			all constance	
foil closures, tensional steel strappings, etc		969		606
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates		532	de instant	208
Glass containers (including glass syphons)	To bullion ale	4,878	707 005	200
Transparent regenerated cellulose film	n Louis and	4,070	707,625	5,366
In sheets or rolls	1	Mark Street) maid (m) ga	071
Bags	}	323 {	80 1831 100 3	271
Plastics	J. San Albay a Ray	tmathadasan sa	We country to the Fre	17
Film (up to 0.01 inches thick)	1		DOTEYS ROOM	
Of polyethylene		an temployala	i i umaganii q	10816
Of other plastics materials			na name edine	42
Bags and sacks	}	116	1	202
Up to 500 gauge				
			••	111
Other	J		••	22
Moulded and fabricated containers including closures and inserts				
Large containers (with a capacity exceeding 1		40.00		
gallon)		bes solve		47
Bottles and bottle caps				2,073
Tubes (rigid and collapsible)		1,129	astalase	302
Other (excluding re-usuable crates)				
	in Latinosa	il non sea	elei rajam ri	446
All other packaging materials		1,724	efaireira	1,795
uel and electricity (i) Coal	Th. tons	000	Th.tons	
Coke (including corporation) and	181	803	100	493
Coke (including screenings) and manufactured fuel	14.6	79	1.0	11
Derv fuel and motor spirit for use in road vehicles	Th.gal.	se tenág i	Th.gal.	
Other liquid fuels (including creosote/pitch mixtures,	2,156	465	2,069	658
etc and liquefied petroleum gases)	23,394	900	33,251	1,428
	Th.therms	rasynca di	Th.therms	argine Str
Gas	1,442	94	1,316	99

TABLE 10 (continued)

	196	33	1968	
	Quantity	Cost	Quantity	Cost
Fuel and electricity (i) (continued)	Th.kWh 261,309	£'000 1,438	Th.kWh 424,395	£'000 2,479
Electricity All other fuels		(h)		27
Total cost of materials and fuel Goods purchased for merchanting		84,925 12,971 723	2010000	129,841 15,503 936
Canteen purchases Total cost of purchases		98,619	10 SEC. 1/10 PROCESSOR	146,280

- (a) Included in 'All other materials for use in production' for 1963.
- (b) So far as separately recorded in 1963.
- (c) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc) including pharmaceutical grades of heavy chemicals'.
- (d) For 1963 described as 'Pharmaceutical chemicals (ie chemicals for therapeutic or prophylactic use, unmixed or uncompounded, excluding unmixed products put up in measured doses for therapeutic or prophylactic use)'.
- (e) For 1963 included in 'Other pharmaceutical chemicals, unmixed or uncompounded, not put up in measured doses'.
- (f) Including salicylates for 1963.
- (g) For 1963 described as 'Medicinal oils and paraffin (other than for use as fuel)'.
- (i) Owing to the risk of disclosure of information relating to individual firms, total quantities of electricity generated in firms, own establishments in this industry in 1963 and 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.	837	719
Transport costs Wages and salaries	£'000	690	730
Derv fuel and motor spirit	п	465	658
Tyres and other spare parts for road goods vehicles	n n		102
by road	"		2,072
Payments to other organisations for transport by rail and other means excluding postal services	n	2,596	502
Costs of operating road goods vehicles	"	50	46
Insurance Vehicle licences	n.	39	59
Depreciation	п	237	315
Payments to other organisations for repairs and maintenance	n de la companya de l	92	110
Total	n	4,169(a)	4,595

⁽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
A STATE TO BEST AND THE STATE OF THE STATE O	1963	1968
Repairs and maintenance to	£'000	£,000
Buildings	710	746
Road goods vehicles	92	110
Plant, machinery and other capital equipment	1,021	1,864
Insurance, licensing and depreciation of road goods vehicles (b)	326	. 421
Rates, excluding water rates	1,186	1,786
lire of plant and machinery	193	456
Postage, telephone, telegrams, cables and telex (c)	1,050	1,260
Total	4,578	6,642

⁽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)	_	-
May	2.4	0.5
June	9.8	17.4
July	0.8	0.1
August	1.6	6.7
September	3.3	0.6
October	3.3	5.2
November	11.4	12.2
December	39.8	33.4
1969		
January	2.4	1.2
February	0.8	0.7
March	23.6	21.9
April (b)	0.8	0.1
	100	100

⁽a) From 6 April.

⁽b) For details see Table 11.

⁽c) Excluding telex for 1963.

⁽b) To 5 April.