

BOARD OF TRADE

# THE REPORT on the CENSUS OF PRODUCTION FOR 1951

Volume 2

Trade C

# FERTILISER, DISINFECTANT, INSECTICIDE

AND ALLIED TRADES

Presented by the Board of Frade to Parliament in pursuance of the Brain Sees of Trade Act, 1947 (10 & 11 Geo. 6, Ch. 39, Sec. 7).

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[HA 25]

## FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES

THIS REPORT on the Fertiliser, Disinfectant, Insecticide and Allied Trades relates to establishments engaged wholly or mainly in the manufacture of artificial manures, fertilisers, disinfectants, insecticides, sheep and cattle dips and weedkillers, including two Government establishments in each post-war year.

These trades correspond to minimum list heading 31 (2) in the Standard Industrial Classification.

The figures shown for these trades for 1951 are not wholly comparable with those for earlier years, as one section of the trade, which was previously returned in the Chemicals (General) Trade is now included in this report. This does not effect the figures in Table 8, which show the total sales of principal products of these trades, including sales by establishments classified to other trades. Its effect is mainly on the summary particulars - gross and net output, employment, wages and salaries, etc., which for 1951 give a more comprehensive picture of these trades as a whole than the figures for the years 1948 to 1950. The gross output of the section that was previously not covered in these trades accounted for approximately one-fifth of the total gross output for 1951.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

### FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES

### Summary

### Larger establishments (a)

TABLE 1

APLE 1		1 1 1 11 1		Great E	oni baia	United	/in adom
	U	hited Kingd	om	Great			
	1951	1950	1949	1949	1948	1937	1935
	£'000	£,000	£'000	£,000	£,000	£,000	£,000
Gross output (production) (b) Amount receivable in respect of	61,336	37,284	33,108	32,143	30,945	6,132	5,362
General Charges Allowance Government Early Delivery Rebate Government Compound Rebate	1,338 152 135	2,689 231 133	2,580 217 132	2,580 (c) 217 (c) 132 (c)	2,011 167 135	-	-
Cost of materials and fuel used (d) Payment for work done on materials given out Amount payable in respect of levies	39,631	26,254 104 1,433	23,139 107 1,425	22,516 107 1,425(c)	21,112 164 1,207	3,807	3,225
Transport payments (e)	2,797	•••	••	••	••		
Vet output Vages and salaries of persons employed	20,395 9,016	12,547 5,672	11,367	10,958	10,773	2,324	2,136
verage number of persons employed(f)	No. 21,421	No. 15,370	No. 15,887	No. 15,306	No. 15,254	No. 6,979	No. 6.577
iverage number of persons employees	£	£	£	£	£	£	£
let output per person employed (f)	952	816	715	716	706	333	325
tocks at end of year	€,000	£,000	£, 000	£,000	£,000	£,000	£.000
Products on hand for sale and work in progress Materials and fuel	3,412 6,998	1,846 3,711	2,207 3,898	2,120 3,812	1,809 3,595		::
Tumber of establishments	No. 174	No. 180	No. 172	No. 169	No. 172	No.	No. 123
The values of gross output an	d of materi	als and fue	l used are	derived in	the following	ng way:-	
	£,000	£,000	£,000	£,000	£,000	£,000	£,000
Output of firms in this trade (g) Principal products (h) Other output (i)	55,843 4,811	38,606	33,729	32,784 {	29,307 2,223	5,587 545	4,966
Changes in stocks and work in progress (j)	+ 682	- 290	+ 318	+ 283	+ 285		
	61,336	38,316	34,047	33,067	31,815	6,132	5,362
Less payment for transport outwards (e)	••.	1,033	939	924	870	5 6.132	3,362
Gross output (production)	61,336	37,284	33,108	32,143	30,945	6,132	5,36
aterials and fuel used by firms							
in this trade					OI AAF		The second second
in this trade Purchases Changes in stocks (j)	42,343 - 2,713	26,042 + 212	23,371 - 233	22,731 - 214	21,445	3.807	3,22

 (a) For small firms' summary see Table 2.
 (b) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

goods sold are excluded.

(c) Including particulars in respect of Northern Ireland.

(d) Amounts paid for delivery services are excluded for 1951 but included for other years.

(e) Payments to other firms and undertakings and to firms own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(f) Excluding outworkers but including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(g) Total value of sales (1951, 1950, 1949 and 1948) or production for sale (1937 and 1935).

(h) For details for 1951 and 1948 see Table 8.

(i) For details for 1951 and 1948 see Table 10.

(j) For details for 1951 see Table 21.

Summary

### Small firms (a)

TABLE 2

	Great	Britain	United Kingdom	Great Britain	
ended	1951	1950	1949	1949	1948
Number of returns	191	214	224	218	165
Average number of persons employed (b)					
Males Females	955 214	981 263	995 235	96 5 223	771 177
Total	1,169	1,244	1,230	1,188	948

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

### Estimated average employment (a)

### All firms

TABLE 3

	Uni	ited Kingdom		Great Britain		
	1951	1950	1949	1949	1948	
s returned by firms						
Employing on the average more than ten persons (b) Employing on the average ten or fewer persons (c)	21,421 1,169(d)	15.370 1.244(d)	15.887 1,230	15,306 1,188	15,254 948	
stimated average employment in firms not making	22,590	16,614	17,117	16,494	16.202	
satisfactory returns	67	104	81	81	332	
stimated average employment in all firms	22,657(d)	16,718(d)	17,198	16,575	16.534	

### Analysis by size, 1951

### Larger establishments in the United Kingdom

### TABLE 4

			Net output		1			
Average number employed	Establish- ments	Gross output		Persons employed	Operatives	Other employees (a)	Total	Net output per person employed
	No.	£'000	£,000	No.	£'000	£'000	£'000	£
11 - 24	47	2,333	626	812	171	129	300	770
25 - 49	47	4,626	1,369	1.737	388	228	617	788
50 - 99	31	6.749	1,852	2.217	546	342	888	835 .
100 - 199	27	12,899	3,697	3,876	1,004	561	1,565	954
200 - 299	14	9.771	3,284	3,360	851	432	1,283	977
300 and over	8	24,958	9,568	9,419	3,011	1,353	4,364	1,016
Total	174	61,336	20,395	21,421	5,971	3,045	9,016	952

(a) Administrative, technical and clerical employees.

<sup>(</sup>a) Including working proprietors.
(b) See Tables 13(iv) and 14.
(c) See Table 2.
(d) Excluding any small firms in Northern Ireland.

### Analysis by standard region, 1951

### Larger establishments in the United Kingdom

TABLE 5

			Net o	utput		F	Remuneration		Net output
Region	Estab- lish- ments		Persons employed	Operatives	Other employees (a)	Total	per person employed		
	No.	£'000	£,000		No.	£'000	£.000	£,000	3
England and Northern Ireland									
Northern; and Northern Ireland	15	19,181	8,004	39.2	8,056	2.703	1.081	3.784	994
East and West Ridings	18	5,417	1,624	8.0	1,945	376	332	708	835
North Midland	19	5,773	1,627	8.0	1,653	493	185	678	985
Eastern	17	6.975	2,219	10.9	2,067	544	315	860	1.073
London and South Eastern	25	5.278	1,'563	7.7	1,970	439	341	779	793
Southern; and South Western	8	3,292	857	4.2	710	208	98	306	1,207
Midland	5	307	94	0.5	136	25	21	46	688
North Western	20	3,455	1,084	5.3	1,423	342	185	527	762
Total England and Northern									
Ireland	127	49,678	17.073	83.7	17,960	5.130	2,558	7.688	951
Wales	8	972	377	1.8	417	141	26	167	903
Scotland	39	10,686	2,946	14.4	3,044	700	461	1,161	968
United Kingdom	174	61,336	20,395	100.0	21,421	5,971	3,045	9,016	952

(a) Administrative, technical and clerical employees.

Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

TABLE 6

			Sales of charac- teristic products			R			
	Establish- ments	Gross output		Net output	Persons employed	Operatives	Other employees (a)	Total	Net output per person employed
	No.	£.000	£,000	£,000	No.	£,000	£'000	£'000	£
Specialist producers of									
Fertilisers	121	49,365	44.870	15,798	16,458	5,061	2,127	7,187	960
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips, and like products	53	11,971	10.235	4.597	4,963	910	918	1,828	927
Total	174	61,336	17	20,395	21,421	5,971	3,045	9,016	952

(a) Administrative, technical and clerical employees.

### Total make of intermediate products

### Larger establishments

TABLE 7

	Return	ed in thi	s trade	Returned in all trades		
	United Kingdom 1951 Quantity Entries		Great Britain 1948	United Kingdom 1951		Great Britain 1948
The company of the control of the co			Quantity	Quantity Entries		Quantity
Della Senior della	Th. tons	No.	Th.tons	Th.tons	No.	Th.tons
Principal products				a billion of the	1000000	
Fertilisers, prepared or manufactured				the miles of the same		
Simple fertilisers				100000000000000000000000000000000000000		
Phosphatic					4 4 4 5	
Basic slag, ground	480.4	11	427.9	870.0	24	685.8(a)
Phosphate rock, ground	583.8	36	706.9	583.8	36	707.7
Superphosphate of lime	(b)		1,000.5	833.8	41	1.034.7
Nitrogenous				and and an in-	1 . Se . Ta .	
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen)	753.3		305.1	1,050.8	80	995.4
Other, including nitro-chalk but excluding nitrate of ammonia	(b)		15.8	284.9	11	233.3
Other products				CONTRACTOR OF STREET		
Sulphuric acid (c)	241.4	20	169.9		14203	1915 8/10-8

(a) Corrected figure.(b) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(c) For total make returned in all trades see the Chemicals (General) Trade (Volume 2, Trade E).

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

### Larger establishments

TABLE 8

	Uni	ted Kingdom 1951	victor and	Great Britain 1948		
at period triples of all	Quantity	Value	Entries	Quantity	Value	
Pertilisers, prepared or manufactured	Th. tons	£.000	No.	Th. tons	£,000	
Simple fertilisers	DEMOCRACION FOR	李明的 起落 二十二				
Phosphatic			-			
Basic slag, ground	863.6	2,632	23	681.8(a)	1.473(a)	
Phosphate rock, ground	97.4	583	28	96.9	447	
Superphosphate of lime	362.4	2,402	40	607.3	2.807	
Ni trogenous	1 1 1000 -000				2,00,	
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) (b)	713.2	9,238	9	662.1	6,835	
Other nitrogenous fertilisers, excluding nitrate of ammonia (c)  Other prepared or manufactured fertilisers	285.6	3,679	10 {	211.0	2,420 56	
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof		the way	and the services	distanti e e e e e e e e e e e e e e e e e e e		
and horn meal	48.9	1,179	72	33.1	569	
Other kinds	22.4	460 43	} 21 {	35.4	483	
Total simple fertilisers	2,393.5	20,174	} {	2,327.7	15,033	

TABLE 8 (contd.)

	Uni	ted Kingdom 1951		Great B	
	Quantity	Value	Entries	Quantity	Value
	Th.tons	£'000	No.	Th.tons	£,000
Fertilisers, prepared or manufactured (contd.)					
Compound fertilisers	2,125.6	28,335	112	1,648.7	16,614
Disinfectants, antiseptics, insecticides, weed-killers, sheep and cattle dips and like products					
Coal tar disinfectants, antiseptics, and sheep and cattle dips and dressings	22.4	2,137	54	24.3	2,077
Other disinfectants and antiseptics	17.7	2,989	63 1	14.9	2,403
Other district dates and distribution		489	7 - 4	•	
Other sheep and cattle dips and dressings	3.8	937	7	7.0	835
Agricultural and horticultural insecticides, fungicides and weedkillers	Th.cwts.		122222018	Th.cwts.	EL-1201395
Nicotine and insecticides containing nicotine	16.4	266	11	21.3	290
	Th. tons			Th. tons	0.05
Weedkillers	21.9	2,328	51	12.1	935
Other agricultural and horticultural insecticides and fungicides	40.8	4,294	48 {	16.1	1,529 1,760
Unclassified nicotine, etc. and other insecticides	13.7	1,961	17	•	100 100 100 100 100 100 100 100 100 100
Industrial and household insecticides, rodenticides, etc.	4.8	1,385	70 {	3.7	910 243
Insecticides, etc. not elsewhere specified	0.9	146 74	} 28 {	5.5	422 43
Waste products		45	14	•••	27
Work done for the trade or on commission (d)		175	8		59
Total		65,777	••	31 407	43,630
Sales in other trades (see Table 9)		9,933			14,324
Principal products of this trade sold by establishments in the trade		55,843	162		29,307

(a) Corrected figure.
(b) Excluding output of sulphate of ammonia at coke ovens and gas works, which returned the following amounts:-

1948 1951 Th.tons £'000 Th.tons £'000 188.4 .. 183.3 .. Coke ovens 79.7 1,171 69.0 Gas works

(c) For ammonium nitrate see the Chemicals (General) Trade (Volume 2, Trade E). (d) Amount charged.

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

Larger establishments

orenes to the less than the second	Unit	ed Kingdom 1951		Great Britain 1948		
The section of the se	Quantity	Value	Entries	Quantity	Value	
	Th. tons	£'000	No.	Th. tons	£,000	
ertilisers, prepared or manufactured						
Simple fertilisers						
Basic slag, ground	390.5	785	12	257.9(b)	375(ь)	
Superphosphate of lime and nitrogenous fertilisers other than nitrate of ammonia	74.6	306	11 {	594.6	6,303(c) 5	
Other prepared or manufactured fertilisers						
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	40.8	960	61	30.8	502	
Other kinds	12.3	304	} 9 {	18.7	356 21	
Total simple fertilisers	518.2	2,958	} {	902.1	7.536 26	

(86807/1)

TABLE 9 (contd.)

	Unit	ed Kingdom 1951		Great Britain 1948		
The second secon	Quantity	Value	Entries	Quantity	Value	
Fertilisers, prepared or manufactured (contd.)	Th. tons	£,000	No.	Th. tons	£'000	
Compound fertilisers	37.9	6 50	18	179.9	3,147	
Disinfectants, antiseptics, insecticides, weed-killers, sheep and cattle dips and like products						
Coal tar disinfectants, antiseptics, and sheep and cattle dips and dressings	5.6	415	36	7.2	543	
Other disinfectants, antiseptics, and sheep and cattle dips and dressings	2.2	341 385	} 41 {	2.5	289 230	
Agricultural and horticultural insecticides, fungicides and weedkillers				Th.cwts.		
Nico tine and insecticides containing nico tine	-	•	-	0.9	14	
Weedkillers	13.4	1,804	29	8.4	591	
Other agricultural and horticultural insecticides and fungicides	5.8	9 57	25 {	4,1	689 760	
Unclassified nicotine, etc. and other insecticides	13.7	1,961	17		-	
Industrial and household insecticides, rodenticides, etc.	1.0	346	43	1.5	29 4 1 28	
Insecticides, etc. not elsewhere specified	0.3	81 25	17	0.6	32 43	
Work done for the trade or on commission			-		1(d)	
Total		9,933			14,324	

(a) Paragraph 3 of the introductory note on Page 1 should be read before making any comparisons between the figures for 1951 and 1948 in this table.
(b) Corrected figure.
(c) Including phosphate rock, ground.
(d) Amount charged.

# Sales in the trade of other than principal products (a)

Larger establishments

	United K		Great Britain 1948		
	Quantity	Value	Quantity	Value	
	Th.tons	£'000	Th.tons	£,000	
Sulphuric acid, in terms of 100 per cent. acid	29.9	216	21.5	123	
Drugs and pharmaceutical preparations	· · · · · · · · · · · · · · · · · · ·	322		293	
Other chemical manufactures		521		351	
Animal oils, fats and greases	1.9	154	2.2	50	
	Th.cwts.		Th.cwts.		
Soap	16.7	64	13.4	67	
Washing materials, soapless detergents and scouring materials, other than soap	95.5	276	110.5	270	
Other goods		3,258		1,044	
Work done		•		24(ы)	
Total		4,811		2,223	

(a) Paragraph 3 of the introductory note on page 1 should be read before making any comparisons between the figures for 1951 and 1948 in this table.
 (b) Amount charged.

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

		Production (b)	Exports (c)	Retained imports (d)
		Th.tons	Th:tons	Th.tons
Basic slag, ground	{ 1951 1948	870.0 685.8	2.0	155.5 76.7
Phosphate rock, ground	{ 1951 1948	583.8 707.7	•	7.5 136.3
Superphosphate of lime	{ 1951 1948 1937	833.8 1,034.7 464.7	1.6 18.7 22.5	294.5 91.4 23.1
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) (e)	<pre>{ 1951 1948 1937</pre>	1,050.8 995.4 505.7(f)	255.5 221.0 311.8	0.9
Sone meal	{ 1951 1948 1937	48.9(g) 33.1(g) 27.2(f)	1.7	13.7 8.4 14.8
Compound fertilisers	$ \begin{cases} 1951 \\ 1948 \\ 1937 \end{cases} $	2,125.6(h) 1,648.7(h) 577.5(f)	11.8 7.1 83.8	0.1
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products (i)				
		Th.cwts.	Th.cwts.	Th.cwts.
Nicotine and insecticides containing nicotine	{ 1951 1948 1937	16.4(h) 21.3(h) 21.0(f)	4.8 0.2 1.2	1.2 0.9 0.5
		£'000	£'000	£. 000
All other sorts	{ 1951 1948 1937	16,739(h) 11,530(h) 2,061(f)	5.753 3.992 829	434 131 48

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Including production (or sales) by establishments classified to other trades.

(c) Valued f.o.b.

(d) Valued c.i.f.

(e) The overseas trade figures and the 1937 production figure are described simply as 'Sulphate of ammonia'.

(f) Production for sale.

(g) Sales, including meat meal, meat and bone meal, steamed bone flour and meal, and hoof and horn meal.
(h) Sales.

(i) The overseas trade figures relate to 'Disinfectants, insecticides, weedkillers, and sheep and cattle dressings'.

TABLE 12 - Usage of certain specified purchased materials, 1951 Larger establishments in the United Kingdom

No information of usage of materials was required from this trade.

### TABLE 13

Employment in September Larger establishments (a)

	A manager transmitted	United Kingdom			Britain	United Kingdom	
	1951(b)	1950(b)	1949(ь)	1949(ы)	1948 (c)	1937 (c)	1935(c)
Males							
Under 18	383	239	299	289	407	283	199
All ages	13,580	9,401	9,791	9,280	9,419	4,649	4,413
Females						A STATE OF THE PARTY OF THE	
Under 18	215	142	217	217	262	108	68
All ages	1,643	1,636	1,841	1,830	1,896	510	46 5
Total							
Under 18	598	381	516	506	669	391	267
All ages	15,223	11,037	11.632	11.110	11,315	5,159	4,878

(ii) Administrative, technical and clerical employees (d) Number United Kingdom United Kingdom Great Britain 1949 1935 1951 1950 1949 1948 Under 18 All ages 3.651 2.649 2.646 2.586 2.475 1.312 1.246 Females Under 18 All ages 1,845 1,443 1,483 1,459 1,438 508 453 Total 323 3,913(e) 385 5,496(e) 338 4,092(e) 347 4,129(e) 169 116 Under 18 4,045(e) 1,820 1,699 All ages

	U	United Kingdom			Britain	United Kingdom		
	1951	1950	1949	1949	1948	1937	1935	
Males Under 18 All ages Females	479 17,231	320 12.050	399 12,437	385 11.866	500 11.894	371 5,961	270 5,659	
Under 18 All ages	50 4 3,488	399 3,079	464 3.324	463 3.289	492 3,334	189	113 918	
Total Under 18 All ages	983 20,719(e)	719 15,129(e)	863 15,761(e)	848 15,155(e)	992 15,228(e)	560 6,979	383 6.577	

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

Canteen workers 15 Males 145 Females Other workers 562 Males 198 Females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Average for the year.
(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937,

(e) Working proprietors. In addition working proprietors, shown in Table 13(iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors

Number

(11) "01111111111111111111111111111111111	proprietor				
72/07/07	U	United Kingdom			Britain
1.000	1951	19 50	1949	1949	1948
Males Females	22	24	26 1	24 1	25 1
To.tal	22	24	27	25	26

Total

149

### Average employment

### Larger establishments (a)

TABLE 14							Humber
	United Kingdom			Great	Britain	United Kingdom	
	1951	1950	1949	1949	1948	1937	1935
Operatives Administrative, technical and	15.784	11,335	11.767	11,271	11.315	5.159	4.878
clerical employees	5,615	4,011	4,093	4,010	3,913(b)	1.820(b)	1,699(ы)

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

15,860

15,281 15,228

6,979

6.577

(b) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

21,399 15,346

		United Kingdom			Britain	United Kingdom	
2081 h 2081 mg 25	1951	1950	1949	1949	1948	1937	1935
Males Females	9	- 8	40 - 10 53.8 - 10	1: 1	48 ·	-	Si -Cont
Total	9	8	- 1	788 - J	000-		31 - bit

### Shift working, 1951 (a)

### Larger establishments in Great Britain

TABLE 15

THE REPORT OF THE PARTY OF THE	Total number of man-shifts worked in the week-	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours		\$0 ·	- 181 Augus
averaging 8 hours per shift	17.874	142,993	30
ontinuous 4 shift systems per 24 hours averaging 6 hours per shift			ness have specific to
11 2 shift systems	2.889	27.623	20
Other shift systems	-	27,020	- Walle II
Total	20.763	170,616	(b)

(a) Shift working during week ended September 22, 1951.(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Re	turns		100	
White contract the same windows	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift- work
Number Percentage of total in trade Percentage of total on returns	100.0	47 30.0(c)	100.0	10,270 70.0(c)	4.011 27.0(c
showing shift-work	1 2600	23 65 8		100.0	39.1

(c) Rounded to avoid disclosure.

### Wages and salaries and employers' National Insurance contributions paid during the year

### Larger establishments

TABLE 16		Translation.			£'000		
		United Kingdom			Great Britain		
486, 88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1951	1950	1949	1949	1948		
Wages and salaries (a) of							
Operatives Administrative, technical and	5,971	3.717	3,670	3,515	3,37.4		
clerical employees	3.045	1,955	1,910	1,880	1,676		
Total	9,016	5,67.2	5,580	5,395	5,050		
Employers' contributions to all National Insurance Schemes	212	151	155	150	106		

(a) Including bonus and commission payments. Payments to outworkers in 1951 and 1950 amounted to less than £500; no outworkers were recorded for 1949 and 1948.

### Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

### Larger establishments

lant, machinery and vehicles Acquisitions Plant and machinery New Second-hand Vehicles	1951 2,511 28	1949	1949	1948
Acquisitions Plant and machinery New Second-hand		698	089	
Plant and machinery New Second-hand		698	680	
New Second-hand		698	690	
Second-hand		698	680	
				549
	20	42	42	24
New	135	97	91	91
Second-hand	45	31	31	26
		31	31	26
Total acquisitions	2,719	868	843	690
Control of the Contro				000
Disposals				
Plant and machinery	45	19	14	15
Vehicles	34	20	19	13
Total disposals	79	38	33	29
ew building work	VX received:			

444

(excluding site values and development charges)

### CHEMICALS AND ALLIED TRADES COUNTRY TABLES

### FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES

1951

Summary

### Larger establishments

TABLE 18

	England(a)	Wales	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
	£,000	£' 000	£,000	£'000	£,000	£'000
Gross output (production) Amount receivable in respect of	49,678	972	10,686			61,336
General Charges Allowance	1,005	16	318			1.338
Government Early Delivery Rebate	121	2	29			152
Government Compound Rebate	114	3	18			135
Cost of materials and fuel used Payment for work done on materials	31,405	56 5	7,661			39,631
given out	138	-	-			138
Transport payments	2,302	51	444			2,797
Net output	17,073	377	2,946			20,395
Wages and salaries of persons employed	7,688	167	1,161			9,016
	No.	No.	No.	No.	No.	No.
Average number of persons employed (b)	17.960	417	3,044			21,421
	£	£	£	£	£	£
Wet output per person employed (b)	951	903	968			952
Stocks at end of year	£,000	£'000	£,000	£,000	£, 000	£,000
Products on hand for sale and work						
in progress	2,441	31	940			3,412
Materials and fuel	5.707	110	1,181	••		6,998
	No.	No.	No.	No.	No.	No.
Number of establishments	127	8	39			174

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

	£,000	£, 000	£,000	£,000	£'000	£,000
Output of firms in this trade						
Total value of sales (see Table 20) Changes in stocks and work in	49,416	968	10,270			60,654
progress (see Table 21)	+ 262	+ 3	+ 417			+ 682
Gross output (production)	49,678	972	10,686			61,336
Materials and fuel used by firms in this trade						
Purchases	33,731	594	8.019			42,343
Changes in stocks (see Table 21)	- 2,326	- 29	- 358	••	••	- 2,713
Materials and fuel used	31,405	56 5	7.661			39,631

- (a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland, where net output was about 4.0 per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.
- (b) Excluding outworkers but including working proprietors.

### Small firms in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	161	2	28	191
Average number of persons employed (b)				
Males Females	782 201	7	166	955 214
Total	983	7	179	1,169

(a) Small firms in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.
(b) Including working proprietors.

Sales in the trade Larger establishments

-	-	-	-	-
		2 - 188		m
TA	ы		4	v

	England	and Wales	Scot	land	Great 1	Britain	Northern	Ireland	United	Kingdom
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Th. tons	£'000	Th. tons	£,000	Th. tons	£, 000		£,000	Th.tons	£,000
Fertilisers, prepared or manufactured										
Simple fertilisers		7				1500				
Basic slag, ground	473.0	1,847	-	-	473.0	1,847			473.0	1.847
Phosphate rock, ground	60.4	353		(a)				(a)	97.4	583
Superphosphate of lime and nitrogenous fertiliaers other than nitrate of ammonia	1,179.7	13,624		(a)	:			(a)	1,286.5	14, 412
Other prepared or manufactured fertilisers										
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal		(a)		(a)				_ (a)	8.2	219
Other kinds	5.8	119 31	<b>).</b>	(a)	<b></b>	••	••	(a) {	. 10.1	156
Total simple fertilisers	1,750.7	16,317(b) 31	} 124.5	899	• •	••	•• :	(ь) {	1,875.2	17,216
Compound fertilisers	1,649.3	22,052(ы)	438.4	5,634				(b)	2,087.7	27,685
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products					•				2,00,1,	27,000
Coal tar disinfectants, antiseptics, and sheep and cattle dips and dressings		(a)		(a)	16.8	1,722	_		16.8	1.722
Other disinfectants, antiseptics, and sheep and cattle dips and dressings	16.3	3,045 48	2.9	540 56	19.3	3,585	} -	- {	19.3	3,585
Agricultural and horticultural insecti- cides, fungicides and weedkillers	1-									
Nicotine and insecticides containing nicotine		(a)		(a)	Th.cwts.	266	_		Th.cwts.	266

	England o	and Wales	Scot	Land	Great E	Britain	Northern	Ireland	United H	Kingdom
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Principal products (contd.)	Th. tons	£,000	Th. tons	£, 000	Th.tons	£, 000		£,000	Th. tons	£'000
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products (contd.)										
Agricultural and horticultural insecticides, fungicides and weedkillers (contd.)					10 1					
Weedkillers		(a)		(a).	8.4	524			8.4	52
Other agricultural and horticultural insecticides and fungicides		(a)		(a)	35.0	3,337			35.0	3,33
Industrial and household insecticides, rodenticides, etc.	3.5	9 47	0.4	91	3.8	1,039		-	3.8	1,03
Insecticides, etc., nat elsewhere specified	0.6	6 5 49	} -	- {	0.6	6·5 49	} -	- {	0.6	6
Waste products		45				45		•		4
Work done for the trade or on commission (c)		112		63		175		-		17
Total principal products		47,786(Ъ)		8,058				(Ъ)		55,84
Other output						194				
Sulphuric acid, in terms of 100 per cent. acid		(a)		(a)				(a)	29.9	21
Drugs and pharmaceutical preparations		(a)		(a)	,	322		-		32
Other chemical manufactures		204		(a)				(a)		52
Animal oils, fats and greases		(a)		(a)				(a)	1.9	15
					Th.cwts.				Th.cwts.	
Soap		(a)		(a)	16.7	64	•		16.7	. 6
Washing materials, scapless detergents and scouring materials, other than scap		(a)		(a)	95.5	276	-	-	95.5	27
Other goods		1,339(b)	••	1,919	••			(b)	••	3,25
Total		50,384(b)		10,270				(b)		60,65

<sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.
(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.
(c) Amount charged.

# Stocks of products on hand for sale and work in progress, and stocks of materials and fuel

### Larger establishments

TABLE 21

£'000

		England and Wales(a)	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
Products on hand for sale	{ at beginning of year at end of year	2,071 2,323	488 907			2.559 3.230
Work in progress	at beginning of year at end of year	136 149	35 33	:	::	171 182
Total products on hand for sale and work in	fat beginning of year	2,207	523			2.730
progress	at end of year	2,472	940		••	3,412
Materials and fuel	at beginning of year at end of year	3.462 5.817	823 1,181		.:	4.285 6.998

<sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

### Employment in September

### Larger establishments (a)(b)

Note - Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales throughout this table.

TABLE 22

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdon
Males					
Under 18	344	39			383
All ages	11,844	1,736			13,580
Females					
Under 18	170	45			215
All ages	1.393	250			1.643
Total					
Under 18	514	84			598
All ages	13,237	1,986			15,223

(continued overleaf)

### TABLE 22 (contd.)

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					00
Under 18	62	34			96
All ages	3,068	583			3,651
Females					
Under 18	217	72			289
All ages	1,463	382			1.845
Total					
Under 18	279	106	101 - 1010 A 101 A		385
All ages (c)	4,531	965			5,496

(iii) Total emp	England and Wales	Scotland	Great Britain	Northern Ireland	Number United Kingdom
Males					en street and
Under 18	406	73			479
All ages	14.912	2.319			17,231
Females Under 18	387	117			504 3.488
All ages	2.856	632	••		3,400
Total .					000
Under 18	793	190	••	••	983
All ages (c)	17.768	2,951		••	20,719

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers) are shown in Table 22(v) below.
(b) Number employed in the week ended September 22, 1951.
(c) Working proprietors. In addition working proprietors, shown in Table 22(iv) below, were engaged in this trade in larger establishments.

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males Females	13	9		••	22
Total	13	9		•••	22
(v) Excluded em	ployees				Numbe
	England and Wales	Scotland	Great Britain	Northern · I reland	United Kingdom
Canteen workers					
Males	14	1 17	15	-	15
Females	128	17		••	145
Total	142	18	•••	••	160
Other workers'					
Males	286	276		•	56 2
Females	112	86	198		198
Total	398	362		•••	760
Total excluded employees	540	380			920

### Average employment

### Larger establishments

TABLE 23					Numbe
	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Operatives Administrative, technical and	13,706	2.078	•••		15.784
clerical employees	4.658	957			5,615
Total	18,364	3,035			21,399

Outworkers. In addition to the employees shown above the firms in this trade employed outworkers whose numbers are shown below.

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males	-	-		-	-
Females	9	- 25	9	-	. 9
Total	9		9		9

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

### Wages and salaries and employers' National Insurance contributions paid during the year

### Larger establishments

	England and Wales (a) Scotland		Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives Administrative, technical and	5,271	700	••		5,971
clerical employees	2.584	461	••		3,045
Total	7.855	1,161	••		9,016
Employers' contributions to all National Insurance Schemes	182	30			212

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(b) Including bonus and commission payments but excluding payments to outworkers in England and Wales amounting to less than £500.

Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

Larger establishments

shments

	England and Wales(a)	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
Plant, machinery and vehicles Acquisitions Plant and machinery					
New Second-hand	2.264	247 10	::	::	2.511 28
Vehicles New Second-hand	108 41	27 4	:		135 45
Total acquisitions	2.431	289	••	••	2.719
Disposals Plant and machinery Vehicles	32 24	. 13 10	••	••	45 34
Total disposals	56	23			79
New building work  Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	501	145			6 46

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Payments for transport services for finished goods sold and materials and fuel purchased

Larger establishments

TABLE 26

£'000

£. 000

	England and Wales (a)	Scotland	Great Britain	Northern Ireland(a)	·United Kingdom
Amounts paid to other firms and undertakings Amount paid or credited to firms' own separate transport organisations Total	2.300	357	••	••	2,657
	53	88			140
	2.353	444			2.797

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or parttime employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

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

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting): all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed to give these at income tax value.

Output: Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an exworks or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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