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BOARD OF TRADE

# FINAL REPORT on the CENSUS OF PRODUCTION FOR 1948

Volume 2

Trade C

FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES

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

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1952

In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s Od. NET

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\* Not applicable to this trade

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 weed killers, including two Government establishments in 1948.

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

Establishments in these trades in Northern Ireland are excluded in 1948. Owing to the risk of disclosure of information relating to individual firms, separate particulars of the output in Northern Ireland were not published for 1935.

2/0/30

#### FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES Summary

Larger establishments

TARIF I

	1948 (a)	1937 (b)	1935 (b)	
Gross output (production)	£1000 30,945	&' 000 6, 132	&'000 5, 362	
Amount receivable in respect of				
General Charges Allowances	2,011	-	-	
Government Early Delivery Rebate	167	_	_	
Government Compound Rebate	135	_	-	
Cost of materials and fuel used	21, 112	3, 807	3, 225	
Payment for work done on materials given out	164	1	1	
Amount payable in respect of levies	1, 207	<u>-</u>	-	
Net output	10,773	2,324	2, 136	
Wages and salaries of persons employed	5,050	•	••	
Average number of persons employed  Net output per person employed  Stocks at end of year	NO. 15, 254(c) & 706 & 000	NO. 6,979 £ 333 £'000	No. 6, 577 £ 325 £1000	
Finished products and work in progress	1,809	••	••	
Materials and fuel	3,595 No.	No.	No.	
Number of establishments	No. 172	No.	No. 123	

Great Britain only. United Kingdom.

(a) Great Britain only.
(b) United Kingdom.
(c) For an estimate of the total number of persons employed in these trades see Table 3.

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

	1948	1937	1935
Output of firms in these trades	£1000	£1000	£1000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	29, 307	5, 587	4,966
Other output (see Table 10)	2, 223	545	396
Adjustment for changes in stocks and work in progress (see Table 14)	+ 285		
Less payment for transport by other firms	31,814 870	6, 132	5, 362
Gross output (production)	30,945	6, 132	5, 362
Materials and fuel used by firms in these trades Purchases (see Table 13) Adjustment for changes in stocks (see Table 14)	21,445(a) - 333	3,807	3, 225
Maxterials and fuel used	21, 112	3,807	3, 225

After deduction of Government refund in respect of price differences of sulphuric acid purchased (£716,000).

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#### Summary, 1948 Small firms in Great Britain

#### TABLE 2

Number of returns		165	
Average number of persons employed (a)	-		
		771	
Males			
Females		177	
Total		948	

(a) Including working proprietors.

#### Estimated average employment, 1948 All firms in Great Britain

#### TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	15,254
Employing on average ten persons or less (b)	948
Last of service of the last of the service of	16,202
Estimated average employment in firms not making satisfactory returns	332
Estimated average employment in all firms	16, 534

(a) See Tables 1 and 15. (b) See Table 2.

Analysis by size, 1948 Larger establishments in Great Britain

INDEL						AND THE PROPERTY OF THE PARTY O		
Average	Establish-	Gross	Net	Persons	Remuneration			Net output
number employed	ments	output		employed	Wages	Salaries	Total	per person employed
	No.	£1000	£1000	No.	£'000	£1000	£ 000	2
11-24	49	1,548	552	855	178	97	275	645
25-49	49	3,580	1,259	1,761	337	241	578	715
50-99	27	3,893	1,500	1,899	423	184	607	790
100-199	26	7,879	2,487	3,740	855	386	1,241	665
200-299	13	6,272	2,435	3, 265	680	427	1,107	746
300-399	5	3, 471	1, 173	1,657	391	168	559	708
400 and over	3	4,303	1,368	2,077	509	173	682	659
Total	172	30,945	10,773	15, 254	3, 374	1,676	5,050	706

#### Analysis by standard region, 1948

#### Larger establishments in Great Britain

TABLE 5

	Establish-	Gross	Net	output	in carriers	or Yur or chair	Remunerat	tion
	ments	output	Value	Percentage of total	Persons employed	Wages	Salaries	Total
England	No.	£1000	£'000		No.	£1000	£1000	£!000
Northern	14	3,729	1, 238	11.5	1,759	463	120	583
East and West Ridings of		46						
Yorkshire	19	3,756	1,459	13.5	1,751	299	228	528
North Midland	19	3, 202	1,048	9.7	1,517	352	200	552
Eastern	18	4, 385	1,582	14.7	1,835	416	233	649
London and South Eastern	27	4, 288	1,541	14.3	2, 262	463	285	749
Southern; and South Western	10	2,010	611	5.7	732	184	73	257
Midland	7	295	. 99	0.9	181	37	22	59
North Western	21	2,924	1,028	9.5	1,740	361	184	544
Total England	135	24,588	8,605	79.9	11,777	2, 576	1, 345	3,921
Wales	6	615	261	2.4	376	102	22	125
Scotland	31	5,741	1, 908	17.7	3, 101	695	309	1,004
Great Britain	172	30,945	10,773	100.0	15, 254	3, 374	1, 676	5,050

#### FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES

## Analysis according to specialisation within these trades, 1948

#### Larger establishments in Great Britain

TABLE 6

	Establish-	Gross	Sales of	No.+	Dansons	R	emuneration	n	Net output
400 - 3503 30 - 353 (530)	ments	output	charac- teristic products	Net output	Persons employed	Wages	Salaries	Total	per person employed
	No.	£'000	£1000	8,000	No.	2,000	£1000	£1000	£
Specialist producers of									
Fertilisers	114	21,078	16,395	6,475	10,061	2,558	862	3,420	643
Disinfectants, antiseptics, insecticides, weed killers, sheep and cattle dips and like products	49	8,676	7,691	3,726	4,361	714	663	1,377	854
Remainder of the				0,120	1,001			2,0	
trades	9	1, 190		572	832	102	151	252	688
Total -	172	30,945		10,773	15, 254	3,374	1,676	5,050	706

#### Total make of intermediate products

#### Larger establishments

THOSE !							
	Re	eturned in	these trades	S	Return	ed in all to	rades
	1948	(a)	1937 (b)	1935 (b)	1948	(a)	1935 (b)
	Quantity	Entries	Quar	ntity	Quantity	Entries	Quantity
	Th. tons	No.	Th. tons	Th. tons	Th. tons	No.	Th. tons
Simple manures							
Basic slag, ground	427.9	12		217.0	1,001.6	30	320.0
Phosphate rock, ground	706.9	33			707.7	34	
Superphosphate of lime	1,000.5	39	448.2	418.6	1,034.7	40	444.9
Nitrogenous fertilisers Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) Other, including phosphate of ammonia and nitro-	305,1	6		4.5(c)	995•4	107	464.9(c)
chalk but excluding nitrate of ammonia	15.8	10	••	11.2	233.3	14	91.5

<sup>(</sup>a) Great Britain only.

<sup>(</sup>b) United Kingdom.

<sup>(</sup>c) Not described as being in terms of 20.6 per cent. nitrogen.

# Sales (or production) of the principal products of these trades, including sales (or production) of these products by establishments classified to other trades

#### Larger establishments

TABLE 8							
	5960000	1948 (a) Sales		1937 ( Product		1935 Produc	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£1000	Th. tons	£'000
Simple manures							15.30 15.30
Basic slag, ground	997.6	1,670	30	409.6	497	319.8	399
Phosphate rock, ground	96.9	447	27	38.1	87	36.8	79
Superphosphate of lime	607.3	2,807	38	320.6	851	301.0	746
Nitrogenous fertilisers				•			
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) (c)	662.1	6,835	13	228.0(d)	1,226	215.2(d)	1,014
Nitro-chalk	199.0	2,318					
Other nitrogenous fertilisers, including phosphate of ammonia but excluding nitrate of ammonia (e)	12.0	102 56	} 13	105.8	537	90.7	409
Other manufactured fertilisers							in the second
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	33.1	569	51	27.2	143(f)	29.2	<b>1</b> 50(f)
Fish meal	5.4	135	7	1.0	6		
as the second second second second				*63	gallon. National		
Guano	6.3	146	9	4.5	29	, 22.2	108
Other kinds	23.7	202	35	19.7	100		
Total simple manures {	2,643.5	15, 231 77	}	1,154.5	3,476	1,014.9	2,905

TABLE 8 (contd.)

IABLE 8 (contd.)							
Television Fromershap on		1948 (a) Sales	0.0	1937 Produ		1935 Produc	
anisar Ariamed anisa Ariam	Quantity	Value	Entries	Quantity	Value	Quantity	Value
COOFERS A SECOND	Th. tons	£'000	No.	Th. tons	£1000	Th. tons	£1000
Compound manures	a					Balange	
National (including National "Grow More")	833.8	7,138	59		200 AU	andrigues and	
Concentrated	173.0	3,049	8	577.5	3, 451	515.6	2,903
Other compound manures	641.9	6,427	70			TO BUTTON	
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products							
Coal tar disinfectants, antiseptics, and	494				oki ni bay		
sheep and cattle dips and dressings	24.3	2,077	65			100 100 . 202	
Other disinfectants and antiseptics	14.9	2,403 372	109	45.6	1,377(g) 228		
Other sheep and cattle dips and dressings	7.0	835	14				
Industrial and house- hold insecticides, rodenticides, etc.	3.7	910 243	92		an a		
Insecticides, etc., not elsewhere specified	5.5	422 43	24			51.7	1,562
Agricultural and horticultural insecticides, fungicides and weedkillers	and the same	•	•	> 14.6	424	Th. galls. 491	36
Agricultural and horticultural insecticides and fungicides other than nicotine and nicotine insecticides	16.1	1,529 1,760	57		Cathorna Cal		
Weedkillers	12.1 Th. cwts.	935	47	1.4 Th. cwts.	32	Th. cwts.	
Nicotine and insecticides containing nicotine	21.3	290	19	21.0	116	15.2	107
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						1 tocal	

#### TABLE 8 (contd.)

	1948 (a) Sales			1937 Produ		1935 (b) Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
		£1000	No.		£1000		£' 000
Waste products	••	27	8	••	(h)	eterilese:	(h)
Work done for these trades or on commission	463	59(1)	9		(h)		(h)
Total		43, 828	••		9, 104		7,513
Less sales (or production) in other trades (see Table 9)		14,522			3,517		2, 547
Total principal products of these trades sold or made by establishments in these trades		29,307	164		5, 587		4,966

- (a) Great Britain only.
- (b) United Kingdom.
- (c) Excluding output of coke ovens and gas works which returned the following amounts:-

	1948		1937		1935		
	Th. tons	£1000	Th. tons	000 ع	Th. tons	£1000	
Coke ovens	183.3	2,013	193.9	982	160.9	805	
Gas works	69.0	806	83.8	439	75.1	392	

- (d) Not described as being in terms of 20.6 per cent. nitrogen.
- (e) For ammonium nitrate see the Chemicals (General) Trade (Volume 2, Trade E).
- (f) Bone meal.
- (g) Including 12,800 tons (\$367,000) of sheep and cattle dressings.
- (h) Not recorded separately.
- (i) Amount charged.

## Sales (or production) of principal products of these trades by establishments classified to other trades

		All plants and the					
narigebook was rieman.		1948 (a) Sales	64.53 14.8		7 (b)	1935 Product	
Supervi (Continue) Course (Continue)	Quantity	Value	Entries	Quantity.	Value	Quantity	Value
00000000 6000 000 1000 600 1000	Th. tons	£1000	No.	Th. tons	£'000	Th. tons	£'000
Simple manures					de la co		errorein.
Basic slag, ground	573.7	573	18	123.0	100	103.0	92
Phosphate rock, ground; superphosphate of lime; and nitrogenous fertilisers other than nitrate of ammonia	594.6	6,303 5	] 12	341.1	1,756	318.6	1, 431
Other manufactured fertilisers							
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	30.8	502	38	24.3	125	26.5	170
Fish meal and guano	10.0	238	11	2.0		20.0	132
				2.0	13	7 17.5	46
Other kinds	8.7	21	29	10.9	63		STATE OF THE PARTY OF
Total simple manures	1,217.9	7,734 26	· .	501.3	2,057	465.6	1,701
Compound manures						D ARREST TO SE	
Concentrated	164.3	2,964	••	1			
Other compound manures (except National)	15.6	183	8	83.2	684	53.7	416
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products							
Coal tar disinfectants and antiseptics, and sheep and cattle dips and dressings of all kinds	7.2	543	48	12.3	77(2)		
Other disinfectants and antiseptics	2.5	289 230	85	10.2	430(c) 228		
Industrial and household insecticides, rodenticides, etc.	1.5	294 128	65				
Insecticides, etc., not elsewhere specified	0.6	32 43	12				
DS 18235/1							TREES TO LO

## Sales (or production) in these trades of other than principal products

#### Larger establishments

TABLE 10

IARTE 10						MESS CONTRACTOR
	1948 Sal		1937 Produc		1935 Produc	
	Quantity	Value	Quantity	Value	Quantity	Value
The state of the s	Th. tons	£'000	Th. tons	£1 000 ·	Th. tons	£'000
Sulphuric acid, in terms of 100 per cent. acid (c)	21.5	123	21.6	59	18,0	50
Coal tar products	•	119		71	100 17 0 12 AM	8
Drugs and pharmaceutical preparations	••	293	1962 2000 1955 2000	5	Mond dor and	4
Other chemical manufactures	••	232		51		47
Animal oils, fats and greases	2.2 Th. cwts.	50	1.8 Th. cwts.	37	1.4 Th. cwts.	27
Soap	13.4	67	40.1	45	40.6	44
Washing materials, soapless detergents and scouring					A Company of the Comp	
materials, other than soap	110.5 Th. tons	.270	Th. tons	7.9	4.3 Th. tons	3
Feeding stuffs for animals, poultry, etc.	4.5	103 21	15.7	147	10.3	89
Other goods	••	920		130		123
Work done (d)		24			galestone	1
Total		2,223		545		396

- (a) Great Britain only.
- (b) United Kingdom.
- (c) The total make of sulphuric acid recorded on schedules for the Fertilizer, Disinfectant, Insecticide and Allied Trades was 169,900 tons in 1948, 149,900 tons in 1937 and 121,500 tons in 1935.
- (d) Amount charged in 1948 and amount received in 1937 and 1935.

TABLE 9 (contd.)

TOWNSTON (0) TEST (0)		1948 (a) Sales	8-12 8-13	1937 Produc		1935 Product	
entry chines solay the	Quantity	Value	Entries	Quantity	Value	Quantity	Value
20013 C207 251 1 20012   Also	Th. tons	£'000	No.	Th. tons	£1000	Th. tons	£1000
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and like products (contd.)	14 A			<b>1.</b> 2	89	12.3 Th. galls. 480	382 34
Agricultural and horticultural insecticides, fungicides and weedkillers	45 9				nentilasi Satilasi So sas	e cinactante compensión in mais ve acco	
Agricultural and horticultural insecticides and fungicides other than nicotine and nicotine	4.1	689	28	·	or	e manustra silistra st munus	
insecticides	• •	760	<b>)</b>			1000 4188	
Weedkillers	8.4 Th. cwts.	591	26	Th. cwts.	4	Th. cwts.	
Nicotine and insecticides containing nicotine	0.9	14	6	1.9	25	1.6	14
Work done for these trades or on commission		1(d)	•		_	ebnik zod	00 <u>A</u> et
Total	7	14,522	••		3,517	ranto Aging	2, 547

- (a) Great Britain only.
- (b) United Kingdom.
- (c) Including 1,100 tons (£42,000) of sheep and cattle dressings.
- (d) Amount charged.

#### Analysis of sales, 1948

#### Larger establishments in Great Britain

#### TABLE II

	Sales	Percentage of total sales
	£1000	
Sales (or transfers) to other organisations under the same control		
Productive works	1,156	3.7
Export sales organisations (including branches abroad)	1,662	5.3
Other wholesale or selling organisations; and retail shops, etc.	7,957	25, 3
Total sales (or transfers) to other organisations under the same control	10,775	34.3
Sales to independent buyers	**************************************	y tan man page
Exports invoiced directly overseas	914	2.9
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	230	0.7
His Majesty's Government and Local Authorities (other than productive establishments)	868	2.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	954	3.0
Wholesalers, merchants and other agents for resale	9,256(a)	29. 4
Retailers, including multiple shops, caterers and N. A. A. F. I., for resale	1,951	6.2
Other businesses, (including farmers) and institutions of all kinds	6, 447	20.5
Members of the public, including employees	54	0.2
Total sales to independent buyers	20,673	65, 7
Total	31, 447	100.0

<sup>(</sup>a) Of this total £5,585,000 was recorded as divided between £598,000 for export and £4,987,000 for other sales.

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

(4) 35.94 . (6) 73.14		Production (b)	Exports (c)	Retained imports (d)
Eller Scha Stational Westerday of Scientific	904.2072.22	Th. tons	Th. tons	Th. tons
Basic slag, ground	1948	1,001.6	2.0	76.7
Phosphate rock, ground	1948	707.7	••	136.3
Superphosphate of lime	{ 1948 1937	1,034.7 464.7(e)	18.7 22.5	91.4 23.1
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) (f)	{ 1948 19 <i>3</i> 7	9 <b>95.</b> 4 505. 7 (g)	221.0 311.8	0.9
Bone meal	{ 1948 1937	33.1(h) 27.2(1)	1. 7 2. 1	8.4 14.8
Compound manures	{ 1948 1937	1,648.7(j) 577.5(1)	7. 1 83. 8	0.1
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and				AN GALLARADOT.
like products (k)		Th. cwts.	Th. cwts.	Th. cwts.
Nicotine and insecticides containing nicotine	<pre>1948 1937</pre>	21.3(j) 21.0(i) £'000	0.2 1.2 £'000	0.9 0.5 £'000
All other sorts	{ 1948   1937	11,530 (j) 2,061 (l)	3 <b>,</b> 992 829	131. 48

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

- (c) Valued f.o.b.
- (d) Valued c.i.f.
- (e) Including 16,500 tons returned in other trades.
- (f) The oversea trades figures and 1937 production figures are not described as being in terms of 20.6 per cent. nitrogen.
- (g) Production for sale. Including the output (277,700 tons) of coke ovens and gas works.
- (h) Sales of meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal.
- (i) Production for sale.
- (j) Sales.
- (k) The oversea trade figures relate to "Disinfectants, insecticides, weedkillers and sheep and cattle dressings."

<sup>(</sup>b) Including sales (or production) by establishments classified to other trades.

Purchased materials and fuel

Larger establishments

ACTORISE OF THE SECOND	1948	(a)	1937 (1	7 (b) 1935 (b)			
	Materia:		Usage of p	ourchased	materials a	nd fue	
100	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials	Th. tons	£1 000	Th. tons	£¹ 000	Th. tons	£100	
Pyrites	91.4	185	104.2	125	102.4	12	
Sulphuric acid, in terms of 100 per cent. acid	246.5	777 (c)	<b>43.</b> 5	83	39.1(d)		
Phosphate rock (mineral phosphates of lime)						1	
Ground	19.4	92	339.0	579	313.4	4	
Unground	743.6	1, 508	)	010		_	
Potassium salts							
Chloride (muriate)	193.9	1,813					
Nitrate	0.2	4	69.8	404	64.5	3	
Sulphate	10.5	182	09.0	404	04.0		
Other	21.1	174					
Nitrogenous fertilisers		94 - 24 - 1					
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen)	369.7	3, 309	83.2(d)	507	72.8(d)	4	
Nitro-chalk	1.1	11					
Nitrolim (calcium cyanamide)	0.1	2					
Nitrate of ammonia	1.7	21	23.9	106	A ASSESSED		
Phosphate of ammonia	0.1	4			Asiobswei g II		
Other	24.7	161					
Sulphur	13.9	118	15.3	46			
Spent oxide	17.1	18 *		40			
Superphosphate of lime	246.8	1, 148	66.1	169	•		
Bones and bone pieces, raw and degreased, including horms and hoofs	5. 6	82	16.3	79			
Packing materials	Thous.						
Jute sacks and bags	30,938	1,806 417		400			
Other packing materials	••:	1,781					

TABLE 13 (contd.)

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(a) Piss	1948	(a)	1937 (1	b)	1935 (1	b)
four bas eintreven recommo to squery	Material fuel pur	ls and rchased	Usage of	purchased	i materials a	nd fuel
Security Post Committee North Committee North Committee	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th. tons	£' 000		£1000		£1000
Ammonia liquor (in terms of 880 ammonia)	62.9	489			Carrier W.	
Nitric acid, in terms of 100 per cent. acid	1.5	32			20) 8460 E	
Basic slag				+		
Ground	5.0	11				
Unground	400.0	353				
Lime	23.5	47		PART TALLY	Colon adales and	Bulletin
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	14. 1	260			y and transplace	o ak
Fish meal	2.7	46	,			
Guano	0.9	13				
- China clay	<b>3.</b> 5	24				
Filling materials (e.g., cocoa shell, peat, hops)	118.2	287	••	(e)		(e)
Arsenic compounds	Th. cwts.	0.1927.00	1.861	D108-1-1-101		
White arsenic	37.9	69		201518	The American	A TOTAL OF
Other	3, 6	16				
Benzene hexachloride	33.9	336				
Casein	14.7	15	1.08008090	MINISHIP		100000
Caustic soda (on basis of 76°E.)	15.8	14 12				
Copper sulphate	71.2	95	13000 03		100 11 Sec. 12 30	
Cresols	40.7 Th.galls.	152		1000		GREEK .
Creosote oils (including cresylic creosote)	3, 531	192		-12000		.00
Cresylic acid, refined	526 Th. cwts.	114		.000	******	
Dichloro-diphenyl- trichloroethane (D.D.T.)	14.5	237	Decree one	230,000		

## Stocks of finished products and work in progress and stocks of materials and fuel, 1948

#### Larger establishments in Great Britain

#### TABLE 14

Total Control of the	At beginni	ng of year	At end o	of year
	Quantity	Value	Quantity	Value
Finished products	Th. tons	£! 000	Th. tons	£1000
Superphosphate of lime	64.6	231	60.2	172
Compound manures	96.1	630	116.2	777
Other finished products		544		711
Work in progress		119		149
Total finished products and work in progress		1,524		1,809
Materials and fuel			eving.	
Phosphate rock	64.9	135	63.4	132
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen)	24.4	222	16.3	151
Other descriptions of materials and fuel		2,904	••	3, 311
Total materials and fuel	ore of the control of	3, 261		<b>3,</b> 595

TABLE 13 (contd.)						
	1948	(a)	1937 (	(b)	1935	(b)
form, one sterrange based not to sheet	Materia fuel pu	als and archased	Usage of	purchased	materials a	nd fuel
out out committee to the statement of	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th. galls.	£'000	Th. tons	£'000	Th. tons	£'000
Mineral oils (other than for fuel)	1,957	119	Donald man co	i de sees		
Vegetable oils	Th. cwts. 46. 1	317				
Nicotine	0.9	72		1, 179	96.00	1,722(f)
Pyrethrum flowers	0.6	4 8		1, 1/9	29 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1, /22(1)
Soda ash (on basis of 580)	40.6	20		, ,		
All other purchased materials		3, 373		1000 17 10 12	TONE LINE	3000
Fuel and electricity	Th. tons		ALBORAT CON		104 248 348 A	
Coal Coal	175.3	477	40.8	45	40.4	40
Coke	15.7 Th.B.T.U. (kW.hrs.)	53	Th. B. T. U. (kW. hrs.)	(e)	6.7 Th.B.T.U. (kW.hrs.)	6
Electricity purchased Electricity obtained from other works under the same ownership	148,819	428 61	20,824	58	16,210	50
Motor spirit (petrol) and derv. fuel	Th. galls.	675 1127 37				
Used for road vehicles	<b>3</b> 65	35 4			alasais m	7.64
Used for other power purposes	131	11 3		91.19	ns Wilmeson ag	onen
Other oil fuel (including creosote/ .pitch mixtures)	374 Th. therms.	14	••:	27	••	(e)
Gas purchased {	233	7 3		CAT 82.0.12.012		
Gas obtained from other works under the same ownership	-				TARRELL T	
All other purchased fuel	••	2	)	antibute.	al, site sta	section
Total		21,445		3, 807		3, 225

(a) Great Britain only.
(b) United Kingdom.
(c) Net cost after deducting the amount of the Government refund in respect of price differences (£716,000).
(d) Not specified in the terms stated.
(e) Not recorded separately.
(f) Including fuel not specified separately.

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## Employment and remuneration (a)

#### Larger establishments

#### (i) Private firms

0.0		-	-		
DOMESTIC D	A	к			
DESIDER 1	$\boldsymbol{\alpha}$	U		1	

IABLE 15							1			
		erage numb			ative, ted cal employ			Total		
	1948(c)	1937 (d)	1935(d)	1948(c)	1937 (d)	1935 (d)	1948 (c)	1937 (d)	1935 (d)	
Males								o a section as 1	arteldeler	
Under 18 All ages	376 8,416	283 4,649	199 4,413	92 2,384	88 1,312	71 1,246	468 10,800	371 5,961	270 5,659	
Females							,	STEERED DO	onego.	
Under 18 All ages	261 1,854	108 510	68 465	225 1,386	81 508	45 453	486 3,240	189	113 918	
Total									1000	
Under 18 All ages	637 10,270	391 5,159	267 4,878	317 3,770(e)	169 1,820	116 1,699	954 14,040 (e)(f)(g)	560 6,979	383 6,577	
	£1000			£'000.			£1000	and been	E ESTABLEM.	
Total remuneration	3,042		••;	1,599	••	••	4,641	2000.00	gent.	

(a) Excluded employees. The following numbers were employed at establishments in these trades but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers

7 males

105 females

Other workers

147 males

34 females

Number at September 25, 1948, October 16, 1937, and October 12, 1935.

Great Britain only.

United Kingdom.

There were, in addition 26 working proprietors (25 males and 1 female) in 1948. Working proprietors are included in the 1937 and 1935 figures.

The employers' share of contributions to all National Insurance Schemes payable during the year in

respect of these workers amounted to £96,000. The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	81	
Maintenance and repair of firms' buildings, but not plant	96	
Research work not directly connected with current production however charged	1	. 82

#### TABLE 15

Employment and remuneration (a) Larger establishments

(ii) Government Departments

	Average number of operatives	Administrative, technical and clerical employees (b)	Total		
	1948	1948	1948		
Males					
Under 18 All ages	31 1,003	1 91	32 1,094		
Females					
Under 18 All ages	1 42	5 52	6 94		
Total					
Under 18 All ages	32 1,045	6 143	38 1,188(c)(d)		
	£1000	£¹ 000	£' 000		
Total remuneration	331	77	408		

Excluded employees. No persons were recorded as being employed at Government establishments in these trades but not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept).

Number at September 25, 1948.

The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £10,000.

The following persons (included in this total) were employed on special work by establishments

employing 100 or more persons: -

	Operatives	Administrative, technical and clerical employees
ansport of goods outside the premises	4	
intenance and repair of firms' buildings, ut not plant	4	
search work not directly connected with urrent production however charged		inarratonea - de la compens

#### Wages and salaries paid, 1948 (a) Larger establishments in Great Britain

TABLE 16							
	Amount	Est	tablishments	s making re	turns for th	ne calendar	year
	paid by all	Amount	Amount Percentage of an			uneration p	aid in
The second secon	establish- ments	establish- paid	First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£1000	£1000					
Operatives	3,374	928	24.8	25.7	25.2	24.3	100.0
Administrative, technical and clerical employees	1,676	643	23.2	24.3	25.2	27.3	100.0
Total	5,050	1,570	24.2	25.1	25.2	25.6	100.0

(a) Including bonus and commission payments.

#### TABLE 17 - Payments for work done on materials given out, 1948 Larger establishments in Great Britain

The total amount paid for work done on materials given out was £164,000.

#### Payments for certain services, 1948 Larger establishments in Great Britain

#### TABLE 18

	Amount paid
Repair and maintenance	£1000
Of buildings	73
Of plant, machinery and vehicles	194
Unclassified	104
Hire of plant, machinery and vehicles	56
Advertising and market research	onsi in descent
Advertising in newspapers, magazines and periodicals	135
Other advertising services (poster display, despatch of circulars, etc.) and market research	64
Unclassified	227
Payments made for research work	
To research associations	3
To universities, institutions, academic bodies and similar agencies	3
To other commercial concerns	4
Postage, telephone, telegrams and cables	79
Commercial insurance premiums	93
Rates (excluding water rates) payable in the year	44

### FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES Plant, machinery and vehicles acquired and disposed of, 1948 Larger establishments in Great Britain

TABLE 19

	Acqui	Disposals		
· Vales	New	Second-hand	DISPOSAIS	
- 1220 Kaning   131 2001 #	£1000	£*000	£1000	
Plant and machinery	549	24	15	
Vehicles	91	26	13	
Total	640	50	29	

#### Capital expenditure on building work and changes in occupation of buildings and land, 1948

#### Larger establishments in Great Britain

TABI	-E 20	extens income	To refere to promise
-		£1000	£1000
1.	Capital expenditure on building work (a)		149
2.	Existing buildings and land (b)		
	(i) Capital cost of freeholds bought	60	
	Estimated capital value of		
	(ii) Rented property newly occupied in the year (c)	54	
	(111) Leasehold buildings and land newly occupied in the year	165	
	Total of heading 2		280
	Total of headings 1 and 2		430
3.	Existing buildings and land relinquished (d)		THE THEODER TO
	(i) Selling value of freeholds sold	9	
	(ii) Estimated value of other properties relinquished	12	
	Total of heading 3	(many empera)	21
4.	Headings 1 and 2 less heading 3		409

(a) Excluding site value which, where appropriate, is included in heading 2(1).
(b) The figures do not reflect changes in ownership of previously occupied land and buildings.
(c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.

(d) Including property destroyed or abandoned.

#### Summary

#### Larger establishments

TABLE 21

	England	Wales	Scotland	Great
AND	Sugrand	wates.	Scottand	Britain
Didit.	£'000	£'000	£1000	2,000
Gross output (production)	24,588	615	5,741	30,945
Amount receivable in respect of			- A STATE OF THE S	
General Charges Allowances	1, 455	67	489	2,011
Government Early Delivery Rebate	113	2	52	167
Government Compound Rebate	102	4	30	135
Cost of materials and fuel used	16,612	388	4,112	21, 112
Payment for work done on materials given out	164	-	_	164
Amount payable in respect of levies	877	39	292	1, 207
Net output	8,605	261	1,908	10,773
Wages and salaries of persons employed	3,921 No.	125	1,004	5,050
Average number of persons employed	11,777	No. 376	No. 3, 101	No. 15, 254
Net output per person employed	£ 731	. 694	£ 615	£ 706
Stocks at end of year	£'000	£'000	ธ. 000	£'000
Finished products and work in progress	1, 375	13	421	1,809
Materials and fuel	3,068	61	465	3, 595
Number of establishments	No.: 135	No.:	No. 31	No. 172

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

	England	Wales	Scotland	Great Britain
Output of firms in these trades	£! 000	£! 000	£1.000	£'000
Total value of sales (see Table 23)	25, 262	649	5,618	31,530
Adjustment for changes in stocks and work in progress	+ 117	<b>-</b> 5	+ 172	+ 285
	25, 380	644	5,790	31,814
Less payment for transport by other firms	791	30	49	870
Gross output (production)	24, 588	615	5,741	30,945
Materials and fuel used by firms in these trades			Part of the second second	e fortage
Purchases (see Table 24) (a)	16,959	410	4,076	21, 445
Adjustment for changes in stocks	- 347	- 22	+ 36	- 333
Materials and fuel used	16, 612	388	4,112	21, 112
			MANAGEMENT OF THE PARTY OF THE	

<sup>(</sup>a) After deduction of Government refund in respect of price differences of sulphuric acid purchased, \$716,000 for Great Britain. (Owing to the risk of disclosure of information relating to individual firms, separate figures by countries cannot be given).

FERTILISER, DISINFECTANT, INSECTICIDE AND ALLIED TRADES COUNTRY TABLES

Summary

2/0/23

#### Small firms

TABLE 22

TENERS OF THE PROPERTY OF THE	England	Wal es	Scotland	Great Britain
Number of returns	138	5.	22	165
Average number of persons employed (a)	7		·29141300	
Males	654	22	95	771
Females	155	2	20	177
Total	809	24	<b>11</b> 5	948

(a) Including working proprietors.

#### Sales in these trades Larger establishments

TABLE 23

	England a	and Wales	Scot	land	Great Britain	
AND THE PROPERTY OF THE PARTY O	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Th. tons	£1000	Th. tons	£'000	Th. tons	£1000
Simple manures				Enternas ent	and to room	S. C.
Basic slag, ground	423.9	1,097	-	-	423.9	1,097
Phosphate rock, ground; superphosphate of lime; and nitrogenous fertilisers	79.79					arthus.
other than nitrate of ammonia	793.7	5, 349 51	189.0	858	982.7	6, 207 51
Other manufactured fertilisers				nakapatadond	orisme nath	etoni, plei
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and						
hoof and horn meal	1.6	52	0.7	15	2.3	, 67
Fish meal and guano	••	(a)	••	(a)	1.7	43
Other kinds		(a)		(a)	15.0	83
Total simple manures {	1,235.1	6,605 51	190.5	892 {	1, 425.6	7,497 51
Compound manures						1144
National (including National "Grow More")	••	(a)	•• .	(a)	833.8	7 <b>, 1</b> 38
Concentrated	••	(a)		(a)	8.7	84
Other compound manures	478.2	4, 914	148.2	1,330	626.3	6,244
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and dressings	• .					
Coal tar disinfectants and antiseptics, and sheep and						
cattle dips and dressings of all kinds	••	(a)	•.•	(a)	24.1	2, 370
Other disinfectants and antiseptics	••	(a)	••	(a) {	12.4	2, 115 142
Industrial and household insecticides, rodenticides, etc.	••	(a)	••	(a) {	2. 2	615 115
Insecticides, etc., not elsewhere specified	••,5	(a)		(a)	5.0	390
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TABLE 23 (contd.)

TABLE 23 (contd.)								
	England and	d Wales	Scotland		Great E	ritain		
arriar	Quantity	Value	Quantity	Value	Quantity	Value		
		£!000		£'000	Th. tons	£'000		
Principal products (contd.)								
Disinfectants, antiseptics, insecticides, weedkillers, sheep and cattle dips and dressings (contd.)								
Agricultural and horticultural insecticides, fungicides and weedkillers	3.85							
Agricultural and horticul- tural insecticides and fungicides other than nico- tine and nicotine								
insecticides	) · • · ·	(a)	••	(a) {	12,0	840 <b>1,</b> 000		
Weedkillers	••	(a)	••	(a)	3.8 Th. cwts.	344,		
Nicotine and insecticides containing nicotine	•• ]	(a)	••:	(a)	20.4	276		
Waste products	• •	27	••	1	••	27		
Work done for these trades or on commission (b)		58		-		58		
Total principal products		24,043		5, 263		29,307		
Other output								
Sulphuric acid, in terms of 100 per cent. acid		(a)	••:	(a)	21. 5	123		
Coal tar products	9.2.4	(a)		(a)	••	119		
Drugs and pharmaceutical preparations	••	293	-	_	••	293		
Other chemical manufactures	••:	(a)		(a)		232		
Animal oils, fats and greases	••	(a)	••:	(a)	2.2	50		
So ap	••	(a)	••.	(a)	13.4	67		
Washing materials, soapless detergents and scouring materials, other than soap	unsus	(a)	1000	(a)	110.5	270		
Feeding stuffs for animals, poultry, etc.		(a)	•	(a) {	Th. tons 4.5	103		
Other goods		881		39		920		
Work done (b)		24		-		24		
Total		25,912		5,618		31,530		
		AND DESCRIPTION OF THE PERSON	Commence of the Commence of th					

 <sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.
 (b) Amount charged.

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#### Purchased materials and fuel Larger establishments

	England Wale	and s	Scot	land	Great Br	eat Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Materials	Th. tons	£1000	Th. tons	£1000	Th. tons	٤١٥٥٥	
Pyrites		(a)		(a)	91.4	185	
Sulphuric acid, in terms of 100 per cent. acid (b)		(a)		(a)	246.5	777	
Phosphate rock (mineral phosphates of lime)							
Ground	5.9	31	13.5	61	19.4	92	
Unground	499.9	1,023	243.6	485	743.6	1,508	
Potassium salts Chloride (muriate)	150.1	1,403	43.8	411	193.9	1, 813	
Nitrate	0.2	4	-	cala size s	0.2	4	
Sulphate	9.5	164	1.0	18	10.5	182	
Other	••:	(a)	••	(a)	21.1	174	
Nitrogenous fertilisers							
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen)	286.1	2, 526	83.5	782	369.7	3,309	
Nitro-chalk				102	1.1	11	
Nitrolim (calcium		(a)	Annual Control State of the Control		0.1	2	
cyanamide)		(a)	•	(a)	1.7	21	
Nitrate of ammonia	)			1		4	
Phosphate of ammonia	0.1	4	-	7	0.1		
Other	••	(a)	••	(a)	24.7	161	
Sulphur	7.3	68	6.6	50	13.9	118	
Spent oxide	• •	(a)	••	(a)	17.1	18	
Superphosphate of lime	175.3	808	71.5	340	246.8	1, 148	
Bones and bone pieces, raw and degreased, including horns and hoofs		(a)		(a)	5.6	82	
Packing materials	Thous.		Thous.	, (3,	Thous.		
Jute sacks and bags	24,274	1,321 342	6,664	485 75	30,938	1, 806 417	
Other packing materials	• •	1,628	• •	153		1,781	
Ammonia liquor (in terms of 880 ammonia)	Th. tons 62.4	484	Th. tons	4	Th. tons	489	
Nitric acid, in terms of 100 per cent. acid	1.5	32			1.5	32	

TABLE 24 (contd.)

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	England Wale				Great Bri	itain
	Quantity	Cost	Quantity	Cost	Quantity	Cost
Materials (contd.)	Th. tons	£1000	Th. tons	£'000	Th. tons	£'000
Basic slag						
Ground		(a)		(a)	5.0	11
Unground	400.0	353	-	-	400.0	353
Lime	100	(a)		(a)	23.5	47
Meat meal, meat and bone meal, bone meal, steamed bone flour and meal, and hoof and horn meal	12.4	226	1.7	34	14.1	260
Fish meal		(a)		(a)	2.7	46
Guano	0.9	13	_	_	0.9	13
China clay	3.5	24	100000000000000000000000000000000000000		3.5	24
Filling materials (e.g.,		49	Water Control		1100000000	Chest.
cocoa shell, peat, hops)	109.2	277	9.1	11	118.2	287
Arsenic compounds	Th. cwts.		Th. cwts.		Th. cwts.	AND THE RESERVE OF THE PARTY OF
White arsenic	••	(a)	••	(a)	37.9	69
Other	3.6	16	-		3.6	16
Benzene hexachloride	- Anna a con - 60	(a)		(a)	33.9	336
Casein	• •	(a)	••	(a)	14.7	15
Caustic soda (on basis of 76° E.)	12.4	11 12	3.4	3 {	15.8	14 12
Copper sulphate	71.2	95	-	-	71.2	95
Cresols					40.7	152
Consists of the (including				7	Th. galls.	Bit The
Creosote oils (including cresylic creosote)					3,531	192
Cresylic acid, refined		, Her IV			526	114
See the second second		(a)		(a) {	Th. cwts.	1
Dichloro-diphenyl- trichloroethane (D.D.T.)					14.5	237
agangish (Alvestor to Jose		THORESTOVO	es to statems	ella yaliyak	Th. galls.	
Mineral oils (other than for fuel),				OKIDAS NE	1,957	119
					Th. cwts.	317
Vegetable oils	)			,	46.1	
Nicotine	-0.9	72		- 1	0.9	72
Pyrethrum flowers	0.6	8	}	- {	0.6	8
Soda ash (on basis of 580)	37.4	18	3.2	1	40.6	20
All other purchased materials		3,068		305		3,373

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#### Employment and remuneration

#### Larger establishments

#### (i) Private firms

TABLE 24 (contd.)

Control of the contro	Englar	nd and				
	Wal		Sco	tland	Great	Britain
The second section and the second section is a second section of the second section section is a second section of the second section	Quantity	Cost	Quantity	Cost	Quantity	Cost
Fuel and electricity	Th. tons	£'000	Th. tons	£1000	Th. tons	£'000
Coal	153.0	412	22.3	65	175.3	477
Coke	8.4	30	7.3	23	15.7	53
Electricity purchased	Th. B. T. U. (kw. hrs.)	(4)	Th. B. T. U. (kw. hrs.)	**************************************	Th. B. T. U. (kW. hrs.)	ont.t
Electricity obtained from other works under the same ownership	140,496	395 58	8,324	34	148,819	428 61
Motor spirit (petrol) and derv. fuel	Th. galls.	AVE.	Th. galls.		Th. galls.	onouth Accident
Used for road vehicles	271	26	94	9 {	365	35 4
Used for other power purposes	111	9 3	20	2 {	131	11 3
Other oil fuel (including creosote/pitch mixtures)	••	(a)		(a)	374	14
	Th. therms	A CONTRACTOR	Th. therms		Th. therms	ELGCCONTE
Gas purchased	205	6 3	28	1 {	233	7 3
Gas obtained from other works under the same ownership			3.43		*074703.00	Sugnation -
All other purchased fuel	••	2	_		noar sii s	2
Total		17,369		4,076	dian idia o	21, 445

<sup>(</sup>a) Owing to the risk of disclosure of information relating to individual firms separate figures cannot be given.

#### TABLE 25

IADLE 25									
	England and Wales			Scotland			Great Britain		
	number of operatives	Admin- istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin- istrative, technical and clerical employees (a)	Total	Average number of operatives	Admin- istrative, technical and clerical employees (a)	Total
Males				•			-7-5		
Under 18 All ages	340 6,386	51 1,868	391 8,254	36 2,030	41 516	77 2,546	376 8,416	92 2,384	468 10,800
Females Under 18 All ages	230 1,604	194 1,095	424 2,699	31 250	31 291	62 541	261 1,854	225 1,386	486 3,240
Total									
Under 18 All ages	570 7 <b>,</b> 990	245 2,963(b)	815 10,953 (b) (c)	67 2,280	807 (b)	139 3,087 (b) (c)	637	317 3,770 (b)	954 14,040 (b) (c)
	£1000	£'000	£1000	٤١٥٥٥	21000	ล:000	£'000	£1000	£1000
Total remuneration	2,347	1,290	3,637	695	309	1,004	3,042	1,599	4,641

- (a) Number at September 25, 1948.
- (b) There were, in addition, 26 working proprietors (25 males and 1 female) in Great Britain; 11 males, 1 female in England and Wales and 14 males in Scotland.
- (c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £96,000; £73,000 for England and Wales, and £23,000 for Scotland.

#### (ii) Government Departments

The Government establishments classified to this trade were situated in England and Wales. Particulars of employment and remuneration therein are given in Table 15(11).

<sup>(</sup>b) Net cost after deducting the amount of the Government refund in respect of price differences (£716,000 for Great Britain).

# Monthly index of employment of operatives: Larger establishments (average employment in 1948 = 100)

TABLE 26

TABLE 20								
	Mon	thly index (	a)		Monthly index (a)			
Month	England and Wales	Scotland	Great Britain	Month	England and Wales	Scotland	Great Britain	
1948	Andread Chair Angres Chair			1948	Antestanop o care forst male			
January	100.5	105.9	100.8	August	98.8	96.3	98.6	
February	101.0	110.7	101.7	September	98.4	98.5	98.4	
March	103.4	111.6	104.0	October	.96•9	98.5	97.0	
April	103.1	105.9	103.3	November	97.2	92.8	96.9	
May	102.1	103.7	102.2	December	96.6	90.2	96.1	
June	101.5	93.7	101.0	Percentage employment				
July	100.6	92.0	100.0	in these trades covered by index	35.3	10.0	30•2	

<sup>(</sup>a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

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