



BOARD OF TRADE

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FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 2

Trade P

SEED CRUSHING AND OIL REFINING

*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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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 0d. NET

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* Not applicable to this trade

SEED CRUSHING AND OIL REFINING TRADE

THIS REPORT on the Seed Crushing and Oil Refining Trade relates to establishments engaged wholly or mainly in the manufacture of crude oil, cake and meal by crushing or extraction from oil seeds or nuts, and the refining and hydrogenation of such oil and of olive oil, whale oil and fish oils other than liver oils.

This trade corresponds to minimum list heading 39 (2) in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.

Most of the crude oil, and simple cake meal produced in 1948 by this trade was for the Ministry of Food, and this output appears in gross output as amounts charged for work done and not selling values; the corresponding amounts of materials supplied by the Ministry of Food are therefore excluded from the totals of materials purchased and used.

CHEMICALS AND ALLIED TRADES
SEED CRUSHING AND OIL REFINING TRADE

Summary
Larger establishments

TABLE 1

	1948	1937	1935
Gross output (production)	£'000 26,248	£'000 35,400	£'000 26,531
Cost of materials and fuel used	20,236	29,902	21,466
Payment for work done on materials given out	35	26	27
Net output	5,977	5,472	5,018
Wages and salaries of persons employed	£3,471	..	..
Average number of persons employed	No. 9,820	No. 13,596	No. 12,545
Net output per person employed	£ 609	£ 402	£ 400
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	959	..	..
Materials and fuel	1,416	..	..
Number of establishments	No. 44	No. ..	No. 62

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

	1948	1937	1935
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	24,210	32,546	25,001
Other output (see Table 10)	2,008	2,854	1,530
Adjustment for changes in stocks and work in progress (see Table 14)	+ 92		
	26,310	35,400	26,531
Less payment for transport by other firms	62		
Gross output (production)	26,248	35,400	26,531
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	20,247		
Adjustment for changes in stocks (see Table 14)	- 11	29,902	21,466
Materials and fuel used	20,236	29,902	21,466

TABLE 2 - Summary, 1948: Small firms in Great Britain

TABLE 3 - Estimated average employment, 1948: All firms in Great Britain

There were no small firms in the register for this trade. For total average employment in all firms see Tables 1 and 15.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average Number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-24	No. 5	£'000 234	£'000 63	No. 85	£'000 22	£'000 12	£'000 34	£ 745
25-49	5	1,091	158	178	41	22	63	887
50-99	14	10,456	754	982	245	122	368	768
100-199	6	1,432	556	972	240	81	320	572
200-299	6	3,345	850	1,389	333	130	464	612
300 and over	8	9,689	3,596	6,214	1,580	642	2,222	579
Total	44	26,248	5,977	9,820	2,462	1,009	3,471	609

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
England	No.	£'000	£'000		No.	£'000	£'000	£'000
East and West Ridings of Yorkshire	12	6,393	1,232	20.6	2,431	561	258	819
North Midland; and South Western	6	3,891	560	9.4	1,105	299	121	420
London and South Eastern	9	7,666	1,068	17.9	1,466	374	179	552
North Western	9	6,929	2,745	45.9	4,086	1,062	388	1,450
Total England	36	24,879	5,605	93.8	9,088	2,295	946	3,241
Wales	-	-	-	-	-	-	-	-
Scotland	8	1,369	371	6.2	732	166	63	229
Great Britain	44	26,248	5,977	100.0	9,820	2,462	1,009	3,471

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

Total make of intermediate products

Larger establishments

TABLE 7

	Returned in this trade				Returned in all trades		
	1948		1937		1935		Quantity
	Quantity	Entries	Quantity	Quantity	Entries		
	Th. tons	No.	Th. tons	Th. tons	Th. tons	No.	Th. tons
Unrefined vegetable and seed oils							
Coconut oil	56.7	..	51.9	68.6	56.7	..	68.6
Cotton seed oil	(a)	..	107.9	111.1	12.9	13	111.1
Ground nut oil	178.3	..	116.1	64.1	178.3	16	64.1
Linseed oil	(a)	..	91.3	70.5	19.9	15	70.5
Palm kernel oil	182.1	15	69.7	74.3	182.1	15	74.3
Other sorts	(a)	..	45.7	57.9	27.6	10	61.7
Whale oil, unrefined, hydrogenated	(a)	..	..	..	130.5	..	..

(a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

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

Larger establishments

Note - For 1948 the values shown in column 3 are the amounts charged to the Ministry of Food for work done and those in column 6, the amounts charged for sales of goods produced by firms from materials purchased (see introductory note). They are, therefore, not strictly comparable with those for 1937 (column 9) and 1935 (column 11).

TABLE 8

(1)	1948						1937		1935	
	Goods made and work done on a commission basis for Ministry of Food			Sales			Production		Production	
	Quantity (2)	Amount charged (3)	Entries (4)	Quantity (5)	Value (6)	Entries (7)	Quantity (8)	Value (9)	Quantity (10)	Value (11)
	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Unrefined vegetable and seed oils										
Coconut oil	56.7	307	..				36.0	845	48.9	819
Cotton seed oil	12.9	194	13				39.4	1,006	40.4	921
Ground nut oil	178.3	1,416	16				69.5	1,992	39.0	1,013
Linseed oil	19.9	436	15				77.7	2,179	59.6	1,344
Palm kernel oil	182.1	1,523	15				64.9	1,682	64.6	1,088
Other sorts	27.6	262	10				33.8	1,012	41.9	1,065
Total unrefined vegetable and seed oils	477.4	4,138	..	-	-	-	321.3	8,716	294.4	6,250
Vegetable and seed oils partly processed but not refined (e.g., hydrogenated only); and recovered oils	19.6	88	6	6.4	654	13	-	-	-	-
Refined vegetable and seed oils										
Hydrogenated (a)										
Coconut oil	1.7	4	..				0.4	12		
Palm kernel oil	8.7	35	..				1.1	40		
Ground nut oil	16.9	76	7				-	-	..	(b)
Other sorts	95.6	300	8				22.5	690		
Other than hydrogenated (a)										
Coconut oil	42.8	107	9				15.1	421	13.3	275
Cotton seed oil	20.0	39	13		5	..	90.5	2,720	97.0	2,534
Ground nut oil	79.4	254	15	2.8	375	..	36.0	1,237	36.5	1,129
Palm kernel oil	76.1	219	16	3.7	460	..	10.4	308	10.4	223
Rape seed oil	-	-	-	1.6	316	10	5.4	187	6.7	208
Castor oil	-	-	-	3.5	721	6	0.3	11	..	(d)

TABLE 8 (contd.)

(1)	1948						1937		1935	
	Goods made and work done on a commission basis for Ministry of Food			Sales			Production		Production	
	Quantity (2)	Amount charged (3)	Entries (4)	Quantity (5)	Value (e)	Entries (7)	Quantity (8)	Value (9)	Quantity (10)	Value (11)
	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Refined vegetable and seed oils (contd.)										
Other than hydrogenated (a) (contd.)										
Linseed oil										
Boiled	-	-	-	13.8	2,797	62	29.9	939	25.7	661
Refined	44.4	131	17	27.4	5,782	30	18.2	560	18.2	446
Other sorts				7.1	1,554	18	45.4	1,637	65.7	1,754
Unclassified	201.8	612	6	1.4	310	17	-	-	-	-
..				..	363	..				
Total refined vegetable and seed oils	587.4	1,778	..	61.5	12,320	..	275.2	8,762	273.5	7,230
..				..	363	..				
Fish and marine animal oils (e)										
Whale oil										
Unrefined										
Hydrogenated	130.5	653	7							
Other	-	-	-	5.4	650	15	93.7	1,947	90.6	1,362
Refined	50.8	135	8							
Sperm oil and spermaceti (c)	-	-	-	0.5	57	5	0.4	16	0.5	24
Other fish and marine animal oils (f)										
Unrefined	6.2	35	..	0.1	11	..				
Refined	48.3	122	..	2.3	286	12	11.0	234	5.9	123
Unclassified	-	-	-	0.2	21	..	-	-	-	-
Total fish and marine animal oils	235.7	946	..	8.4	1,025	..	105.1	2,197	97.0	1,509
Oil seed cake and meal (including extracted meals)										
Coconut cake and meal	30.6		..				26.9	182	37.0	206
Cotton seed cake and meal	40.6		11				365.7	2,173	437.2	1,955

TABLE 8 (contd.)

(1)	1948						1937		1935	
	Goods made and work done on a commission basis for Ministry of Food			Sales			Production		Production	
	Quantity (2)	Amount charged (3)	Entries (4)	Quantity (5)	Value (6)	Entries (7)	Quantity (8)	Value (9)	Quantity (10)	Value (11)
	Th. tons	£'000	No.	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Oil seed cake and meal (including extracted meals) (contd.)										
Ground nut cake and meal										
Decorticated	166.1		6	-	-	-	82.7	631	48.5	301
Undecorticated	49.0		12	-	-	-				
Linseed cake and meal	108.5		15	-	-	-	176.4	1,543	157.7	1,275
Palm kernel cake and meal	208.0		15	-	-	-	60.3	399	69.5	382
Compound cake, cubes, meal, etc. (h) (1)										
For cattle				220.3	3,020	10				
For calves				20.5	294	9				
For pigs				21.1	311	9				
For poultry				81.0	1,306	9				
Other sorts				1.5	22	..				
Livestock mixtures (i)				0.5	6	..				
Castor seed cake and meal	6.3		6	-	-	-	97.4	719	152.6	873
Other oil seed cake and meal	11.3		6	-	-	-				
Total oil seed cake and meal	620.5		..	344.9	4,959	..	1,797.3	12,914	1,708.7	10,141
Acid oils (j)	23.6		13	1.3	155	13	32.1	567	24.6	321
Cotton linters	-		-	..	52	..	10.2	146	..	163
Waste products	-		-	..	39	6	..	4	..	4
Work done for the trade or on commission other than for the Ministry of Food (l)										
Total				£'000						
Less sales (or production) in other trades (see Table 9)				26,602		..		33,352		25,662
Total principal products of this trade sold or made by establishments in the trade				2,392		..		806		661
Total principal products of this trade sold or made by establishments in the trade				24,210		44		32,546		25,001

- (a) The term "hydrogenated" has been substituted throughout for the term "hardened" which was used in the 1937 and 1935 Censuses.
- (b) Included in the figures for "Refined vegetable and seed oils, other than hydrogenated".
- (c) So far as recorded separately.
- (d) Not recorded separately.
- (e) Described in 1937 and 1935 as "Fish and marine animal oils, fats and greases".
- (f) Excluding liver oil in 1948, and cod liver oil and cod oil in 1937 and 1935.
- (g) Included with the amount charged for production of unrefined oil.
- (h) 1948 - as defined in S.R. & O. 1946, No. 1261.
- (i) 1937 and 1935 - described as "Compound cake and meal (as defined in Part II of the First Schedule to the Fertilisers and Feeding Stuffs Act, 1926)".
- (j) For the output of compound cake and meal and livestock mixtures by other than seed crushers, see the Grain Milling Trade (Volume 8, Trade A) and the Cattle, Dog and Poultry Foods Trade (Volume 9, Trade C).
- (k) The figures for 1937 and 1935 may include some fatty acids.
- (l) Included with amount charged for production of refined oils.
- (m) Amount charged in 1948 and amount received in 1937 and 1935.

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

Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000	Th. tons	£'000
Goods sold (or made for sale)							
Unrefined vegetable and seed oils	-	-	-	3.0	84	3.8	88
Vegetable and seed oils, partly processed but not refined (e.g., hydrogenated only); and recovered oils	0.4	20	7	-	-	-	-
Refined vegetable and seed oils, other than hydrogenated							
Cotton seed oil	-	-	-	-	-	0.1	3
Ground nut oil	-	-	-	0.2	14	0.4	16
Palm kernel oil	-	-	-	0.5	14	0.4	7
Rape seed oil	0.1	16	5	0.1	6	0.2	8
Castor oil	-	-	-	0.2	8	-	-
Linseed oil							
Boiled	1.3	233	52	7.0	238	7.0	202
Refined	0.5	80	19	0.3	10	0.4	10
Other sorts	0.9	58	9	0.1	20	3.3	67
				..	27		
Unclassified	0.6	220	..	-	-	-	-
	..	363					
Fish and marine animal oils, refined and unrefined							
Whale oil	0.3	45	11	9.8	207	6.5	122
Other sorts	1.5	189	12				
Oil seed cake and meal (including extracted meals)	-	-	-	5.0	32	6.7	35
Acid oils and cotton linters	..	51	..	7.2	146(a)	6.2	97(a)
Work done for the trade or on commission other than for the Ministry of Food	-	-	-	-	-	-	6(b)

TABLE 9 (contd.)

	1948 (a) Sales			1937 (b) Production		1935 (b) Production	
	Quantity	Amount charged	Entries	Quantity	Value	Quantity	Value
	Th. tons	£'000	No.		£'000		£'000
Goods made and work done on a commission basis for the Ministry of Food							
Unrefined vegetable and seed oils, other than coconut, ground nut and palm kernel oil	6.2	47	..				
Refined vegetable and seed oils; and fish and marine animal oils, refined and unrefined	373.6	1,070	..				
Linseed cake and meal	5.1	(c)	..				
Total		2,392	..		806		661

(a) Acid oils.

(b) Amount received.

(c) Included with amount charged for production of unrefined oil.

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948 Sales	1937 Production	1935 Production
	£'000	£'000	£'000
Lubricating oils	107	38	26
Other goods	1,555	2,816	1,504
Work done	346 (a)	-	-
Total	2,008	2,854	1,530

(a) Amount charged.

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control		
Productive works	1,365	6.8
Export sales organisations (including branches abroad)	37	0.2
Other wholesale or selling organisations	791	4.0
Retail shops, etc.	-	-
Total sales (or transfers) to other organisations under the same control	2,192	11.0
Sales to independent buyers		
Exports invoiced directly overseas and to Crown Agents and purchasing houses in this country of individual firms and governments abroad	108	0.5
His Majesty's Government and Local Authorities (other than productive establishments)	125	0.6
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	10,639	53.3
Wholesalers, merchants and other agents for resale	5,606(a)	28.1
Retailers, including multiple shops, caterers and N.A.A.F.I., for resale	614	3.1
Other businesses (including farmers) and institutions of all kinds	667	3.3
Members of the public, including employees	-	-
Total sales to independent buyers	17,760	89.0
Total	19,953	100.0

(a) Of this total £3,926,000 was recorded as sales other than for export.

Production, exports and imports of certain principal products

TABLE 12

	Production (a)	Exports	Retained imports
	Th. tons	Th. tons	Th. tons
Unrefined vegetable and seed oils			
Coconut oil	{ 1948 56.7 1937 51.9	- 0.1	58.8 23.8
Cotton seed oil	{ 1948 12.9 1937 107.9	- 13.5	12.4 1.4
Ground nut oil	{ 1948 178.3 1937 116.1	5.0 24.8	7.3 5.6
Linseed oil	{ 1948 19.9 1937 91.6(b)	0.1 4.5	46.3 37.1
Palm kernel oil	{ 1948 182.1 1937 69.7	3.9 7.4	- 0.3
Other sorts (c)	{ 1948 27.6 1937 48.4(d)	0.8 12.9	273.8 126.2
Total unrefined vegetable and seed oils (c)	{ 1948 477.4 1937 485.6	9.8 63.2	398.6 194.4
Refined vegetable and seed oils			
Hydrogenated			
Palm kernel oil	{ 1948 8.7 1937 1.1(e)	0.3 0.4	- 1.6
Other sorts	{ 1948 114.1 1937 22.9(e)	0.2 0.3	0.2 3.2
Other than hydrogenated			
Coconut oil	{ 1948 42.8 1937 15.1(e)	0.2 0.2	- 1.3
Cotton seed oil	{ 1948 20.1(f) 1937 90.5(e)	1.1 12.0	- 0.2
Ground nut oil	{ 1948 82.3(f) 1937 36.0(e)	2.8 0.8	- 1.2
Palm kernel oil	{ 1948 79.7(f) 1937 10.4(e)	0.6 0.3	- 0.5
Linseed oil, boiled	{ 1948 13.8(g) 1937 29.9(e)	0.3 6.4	- -
Other sorts, including mixed refined vegetable and seed oils (other than hydrogenated) (h)	{ 1948 84.1(f) 1937 69.3(e)	0.1 13.2	5.7 5.8
Total refined vegetable and seed oils	{ 1948 650.7(f) (1) 1937 275.2(e)	5.5 33.6	5.8 13.8

TABLE 12 (contd.)

		Production (a)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Fish and marine animal oils				
Whale oil	{1948 1937	186.6(f) 93.7(e)	2.5 4.5	112.7 170.8
Other sorts (j)	{1948 1937	57.5(f) 11.4(e)	0.3 3.9	25.5 22.8
Total fish and marine animal oils	{1948 1937	244.1(f) 105.1(e)	2.9 8.4	138.3 193.6
Oil seed cake and meal (including extracted meals)				
Cotton seed cake and meal	{1948 1937	40.6 385.7(e)	- 8.5	21.2 233.6
Ground nut cake and meal	{1948 1937	215.1 82.7(e)	0.2 0.2	24.0 254.4
Linseed cake and meal	{1948 1937	108.5 176.4(e)	- 2.1	277.4 73.3
Other sorts (excluding livestock mixtures, compound cakes, cubes, meal, etc.)	{1948 1937	256.3(f) 184.6(e)	0.4 6.4	233.4 71.3
Total oil seed cake and meal (excluding livestock mixtures, compound cakes, cubes, meal, etc.)	{1948 1937	620.5(f) 829.4(e)	0.6 17.2	556.0 632.6

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

(b) Including 300 tons returned in other trades.

(c) The oversea trade figures include some refined oil.

(d) Including 2,700 tons returned in other trades.

(e) Production for sale.

(f) Sales and goods made on commission for the Ministry of Food.

(g) Sales.

(h) The oversea trade figures exclude mixed refined vegetable and seed oils, not hydrogenated.

(i) Including 205,000 tons (partly estimated) of unclassified refined vegetable and seed oils, other than hydrogenated.

(j) The oversea trade figures include liver oil other than cod liver oil.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased (a)		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Unrefined oils						
Imported						
Cod liver oil	0.2	27				
Other sorts	8.8	1,681				
Home produced						
Linseed oil	7.4	1,426	206.9	4,625	105.9	1,192
Other sorts	8.1	993	..	270		
Unclassified						
Linseed oil	21.0	4,153				
Other sorts	29.6	5,026				
Molasses	19.5	103	101.5	293	76.4	202
Oil seed cake and meal	112.4	1,052	158.2	1,083		
Fish meal	2.5	62	..	(b)		
Meat meal, meat and bone meal, bone meal and sterilised bone flour	1.4	28	3.0	32(c)		
Maize, maize meal and hominy chop	72.9	727	183.5	1,088(d)	..	19,739(e)
Rice bran	8.4	64	156.0	840		
Wheat offals (pollards, bran and middlings)	65.1	564	78.4	502		
Packing materials	..	816	..	487		
All other purchased materials	..	2,517	..	20,228		
Fuel and electricity						
Coal	204.2	560	264.6	233	252.9	194
Coke	14.6	42	..	(b)	13.0	11
Electricity purchased (f)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	106,299	363				
From other sources	-	-	94,309	173	80,469	148
Electricity obtained from other works under the same ownership	-	-				

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased (a)		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. galls.	£'000		£'000		£'000
Fuel and electricity (contd.)						
Motor Spirit (petrol) and derv. fuel						
Used for road vehicles	118	11				
Used for other power purposes	8	-				
Other oil fuel (including creosote/pitch mixtures)	137	6				
	..	2				
Gas purchased	Th. therms					
From public supply	537	22	..	48	..	(b)
From other sources	-	-				
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	..	2				
Total		20,247		29,902		21,486

- (a) The figures for 1948 do not include materials supplied by the Ministry of Food and are not, therefore, strictly comparable with those for 1937 and 1935.
 (b) Not recorded separately.
 (c) Described as "Meat meal (including whale meat meal)".
 (d) Described as "Maize and maize meal".
 (e) Including fuel not specified separately.
 (f) The total quantity of electricity consumed in 1948 was 125,828,000 B.T. units, including 19,529,000 generated in the same works.

Stocks of finished products and work in progress and stocks of materials and fuel, 1948
 Larger establishments in Great Britain

TABLE 14

	At beginning of year	At end of year
	£'000	£'000
Finished products	735	824
Work in progress	131	135
Total finished products and work in progress	867	959
Materials and fuel	1,405	1,416

Employment and remuneration (a)

Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	128	254	186	44	126	86	172	380	272
All ages	7,200	10,858	10,107	1,512	1,614	1,555	8,712	12,472	11,662
Females									
Under 18	39	94	38	80	170	38	119	264	76
All ages	485	428	353	623	696	530	1,108	1,124	883
Total									
Under 18	167	348	224	124	296	124	291	644	348
All ages	7,685	11,286	10,460	2,135 (c)	2,310	2,085	9,820 (c) (d) (e)	13,596	12,545
Total remuneration	£'000			£'000			£'000		
	2,462	..	..	1,009	..	..	3,471	..	..

- (a) Excluded employees. The following numbers were employed at establishments in this trade 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	14 males,	218 females
Other workers	222 males,	128 females

- (b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

- (c) No working proprietors were recorded for 1948.

- (d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £81,000.

- (e) 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	132	
Maintenance and repair of firms' buildings, but not plant	211	
Research work not directly connected with current production however charged	-	-

CHEMICALS AND ALLIED TRADES

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year						
		Amount paid	Percentage of annual remuneration paid in					Year
			First quarter	Second quarter	Third quarter	Fourth quarter	Year	
Wages and salaries of	£'000	£'000						
Operatives	2,462	1,694	23.5	24.4	24.5	27.6	100.0	
Administrative, technical and clerical employees	1,009	735	24.4	24.8	25.0	25.8	100.0	
Total	3,471	2,429	23.8	24.5	24.7	27.1	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 £35,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repairs and maintenance	
Of buildings	12
Of plant, machinery and vehicles	52
Unclassified	99
Hire of plant, machinery and vehicles	28
Advertising and market research	
Advertising in newspapers, magazines and periodicals	7
Other advertising services (poster display, despatch of circulars, etc.) and market research	14
Unclassified	10
Payments made for research work	2
Postage, telephone, telegrams and cables	37
Commercial insurance premiums	49
Rates (excluding water rates) payable in the year	33

SEED CRUSHING AND OIL REFINING

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	505	34	27
Vehicles	35	6	5
Total	540	40	32

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

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		40
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	-	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	2	
(111) Leasehold buildings and land newly occupied in the year	-	
Total of heading 2		2
Total of headings 1 and 2		42
3. Existing buildings and land relinquished (d)		-
4. Headings 1 and 2 less heading 3		42

(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.

CHEMICAL AND ALLIED TRADES COUNTRY TABLES

SEED CRUSHING AND OIL REFINING TRADE

1948

Summary

Larger establishments

Note - There were no establishments in Wales in the register for this trade.

TABLE 21

	England	Scotland	Great Britain
	£'000	£'000	£'000
Gross output (production)	24,879	1,369	26,248
Cost of materials and fuel used	19,238	997	20,236
Payment for work done on materials given out	35	-	35
Net output	5,605	371	5,977
Wages and salaries of persons employed	3,241	229	3,471
Average number of persons employed	No. 9,088	No. 732	No. 9,820
Net output per person employed	£ 617	£ 507	£ 609
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	881	78	959
Materials and fuel	1,339	78	1,416
Number of establishments	No. 36	No. 8	No. 44

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

	England	Scotland	Great Britain
	£'000	£'000	£'000
Output of firms in this trade	24,826	1,363	26,218
Total value of sales (see Table 23)			
Adjustment for changes in stocks and work in progress	+ 115	- 23	+ 92
Less payment for transport by other firms	24,941	1,369	26,310
Gross output (production)	62	1	62
Materials and fuel used by firms in this trade	19,242	1,005	20,247
Purchases (see Table 24)			
Adjustment for changes in stocks	- 4	- 7	- 11
Materials and fuel used	19,238	997	20,236

TABLE 22 - Summary: Small firms

There were no small firms in the register for this trade.

Sales in the trade

Larger establishments

TABLE 23

	England		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products						
Goods sold						
Vegetable and seed oils, partly processed but not refined (e.g., hydrogenated only); and recovered oils	6.0	634	-	-	6.0	634
Refined vegetable and seed oils						
Cotton seed oil	-	5			-	5
Ground nut oil	2.8	375			2.8	375
Palm kernel oil	3.7	460			3.7	460
Rape seed oil	1.5	301			1.5	301
Castor oil	3.5	721			3.5	721
Linseed oil						
Boiled	11.8	2,422	0.7	141	12.5	2,563
Refined	26.3	5,570	0.6	131	27.0	5,702
Other sorts	6.2	1,496	-	-	6.2	1,496
Unclassified	0.8	90	-	-	0.8	90
Total refined vegetable and seed oils	58.7	11,441	1.3	272	58.0	11,713
Fish and marine animal oils, refined and unrefined						
Whale oil	..	(a)	..	(a)	5.0	605
Other sorts	..	(a)	..	(a)	1.5	186
Total fish and marine animal oils	..	(a)	..	(a)	6.5	791

TABLE 23 (contd.)

	England		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Goods sold (contd.)						
Oil seed cake and meal (including extracted meals)						
Compound cake, cubes, meal, etc.						
For cattle	213.2	2,920	7.2	100	220.3	3,020
For calves	18.2	268	2.3	26	20.5	294
For pigs	20.2	296	0.9	13	21.1	311
For poultry	70.7	1,136	10.2	169	81.0	1,306
Other sorts	0.8	12	0.7	10	1.5	22
Livestock mixtures	0.4	5	0.1	1	0.5	6
Total oil seed cake and meal	323.5	4,639	21.4	320	344.9	4,959
Acid oils and cotton linters	..	156			..	156
Waste products	..	39			..	39
Work done for the trade or on commission other than for the Ministry of Food		74				74
Goods made and work done on a commission basis for the Ministry of Food		Amount charged		Amount charged		Amount charged
		£'000		£'000		£'000
Unrefined vegetable and seed oils						
Coconut oil	48.0	260	8.7	47	56.7	307
Ground nut oil	163.6	1,313	14.7	103	178.3	1,416
Palm kernel oil	176.0	1,478	6.1	46	182.1	1,523
Other sorts	49.3	767	4.8	78	54.2	845
Total unrefined vegetable and seed oils	436.9	3,818	34.3	273	471.2	4,091
Vegetable and seed oils, partly processed but not refined, (e.g., hydrogenated only); and recovered oils	19.6	88			19.6	88
	..	13			..	13
Refined vegetable and seed oils; and fish and marine animal oils, refined and unrefined	..	(a)	..	(a)	449.5	1,654

TABLE 23 (contd.)

	England		Scotland		Great Britain	
	Quantity	Amount charged	Quantity	Amount charged	Quantity	Amount charged
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Principal products (contd.)						
Goods made and work done on a commission basis for the Ministry of Food (contd.)						
Oil seed cake and meal (including extracted meals)						
Coconut cake and meal	(a)		(a)		30.6	
Cotton seed cake and meal	36.4		4.2		40.6	
Ground nut cake and meal						
Decorticated	(a)		(a)		166.1	
Undecorticated	47.7	(b)	1.3	(b)	49.0	(b)
Linseed cake and meal	89.9		13.4		103.4	
Palm kernel cake and meal	(a)		(a)		208.0	
Castor seed cake and meal	6.3		-		6.3	
Other oil seed cake and meal	11.1		0.2		11.3	
Total oil seed cake and meal	(a)	(b)	(a)	(b)	615.4	(b)
Acid oils	(a)	(c)	(a)	(c)	23.6	(c)
Total principal products		22,905		1,305		24,210
Other output						
Lubricating oils (d)	..	107	-	-	..	107
Other goods (d)	..	(a)	..	(a)	..	1,555
Work done		(a)		(a)		346
Total		24,826		1,395		26,218

(a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

(b) Included with amount charged for production of unrefined oils.

(c) Included with amount charged for production of refined oils.

(d) Net selling value.

Purchased materials and fuel
Larger establishments

TABLE 24

	England		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Unrefined oils						
Imported						
Cod liver oil	0.2	27	-	-	0.2	27
Other sorts					8.8	1,681
Home produced	..	(a)	..	(a)	7.4	1,426
Linseed oil					8.1	993
Other sorts						
Unclassified						
Linseed oil	21.0	4,153	-	-	21.0	4,153
Other sorts	29.6	5,026	-	-	29.6	5,026
Molasses	18.5	97	1.1	6	19.5	103
Oil seed cake and meal	105.9	993	6.5	59	112.4	1,052
Fish meal	2.0	50	0.5	11	2.5	62
Meat meal, meat and bone meal, bone meal and sterilised bone flour	1.4	27	-	1	1.4	28
Maize, maize meal and hominy chop	67.6	670	5.3	57	72.9	727
Rice bran	7.7	59	0.7	5	8.4	64
Wheat offals (pollards, bran and middlings)	60.7	529	4.4	35	65.1	564
Packing materials	..	732	..	83	..	816
All other purchased materials	..	2,336	..	181	..	2,517

TABLE 24 (contd.)

	England		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Fuel and electricity						
Coal	190.1	523	14.1	37	204.2	560
Coke	14.6	42	-	-	14.6	42
Electricity purchased (b)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	100,813	341	5,486	22	106,299	363
From other sources	-	-	-	-	-	-
Electricity obtained from other works under the same ownership	-	-	-	-	-	-
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	113	10	4	-	118	11
Used for other power purposes	8	-	-	-	8	-
Other oil fuel (including creosote/pitch mixtures)	..	(a)	..	(a)	137	6
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	533	22	4	-	537	22
From other sources	-	-	-	-	-	-
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	2	-	-	..	2
Total		19,242		1,005		20,247

(a) Owing to the risk of disclosure of information relating to individual firms, separate figures cannot be given.

(b) The total quantity of electricity consumed in England was 120,342,000 B. T. units including 19,529,000 generated in the same works. No Electricity was generated in the same works in Scotland.

CHEMICALS AND ALLIED TRADES COUNTRY TABLES

Employment and remuneration

Larger establishments

TABLE 25

	England			Scotland			Great Britain		
	Average 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									
Under 18	124	39	163	4	5	9	128	44	172
All ages	6,667	1,407	8,074	533	105	638	7,200	1,512	8,712
Females									
Under 18	39	74	113	-	6	6	39	80	119
All ages	441	573	1,014	44	50	94	485	623	1,108
Total									
Under 18	163	113	276	4	11	15	167	124	291
All ages	7,108	1,980(b)	9,088 (b) (c)	577	155(b)	732 (b) (c)	7,685	2,135(b)	9,820 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	2,295	946	3,241	166	63	229	2,462	1,009	3,471

(a) Number at September, 25, 1948.

(b) No working proprietors were recorded.

(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 £81,000; £75,000 for England, and £6,000 for Scotland.

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

TABLE 26

Month	Monthly index (a)	Month	Monthly index (a)
	Great Britain (b)		Great Britain (b)
1948		1948	
January	98.6	August	98.9
February	100.3	September	99.9
March	99.7	October	101.2
April	99.5	November	101.3
May	99.3	December	101.5
June	99.6		
July	100.2	Percentage employment in this trade covered by the index	68.3

(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.

(b) Owing to the risk of disclosure of information relating to individual firms separate particulars for England and Scotland cannot be given.

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